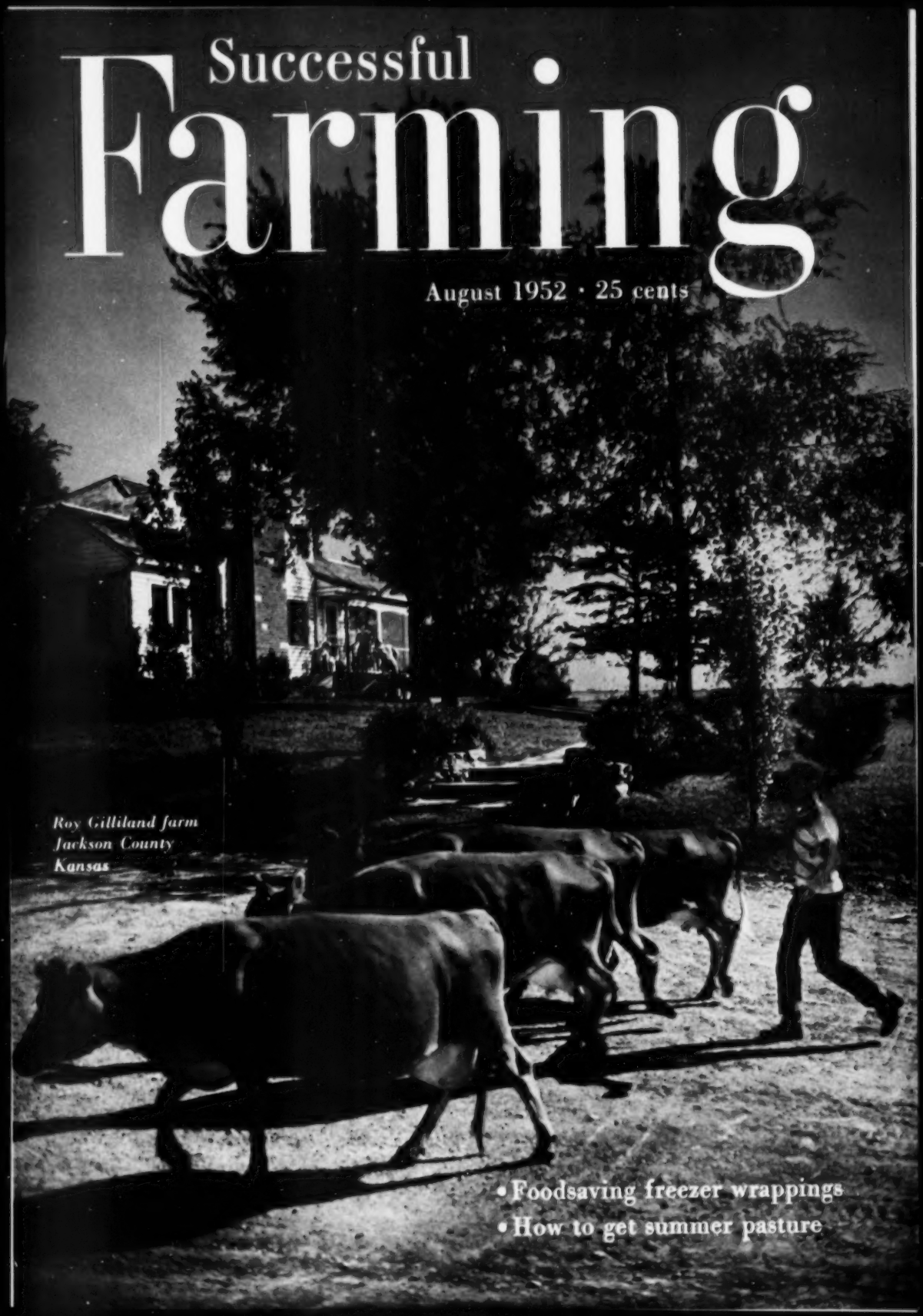
Successful Farming

August 1952 · 25 cents



Roy Gilliland farm
Jackson County
Kansas

- Foodsaving freezer wrappings
- How to get summer pasture

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LOTS of claims are being made to convince you that this, that or the other tractor tire will give you greater traction, clean better, and get your work done faster.

But claims won't do your work for you. What you want is down-to-earth facts—based on the experience of farmers who have tried and tested all makes of tractor tires under all kinds of soil and weather conditions.

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Doesn't it make good sense, then, to get Goodyears on *your* tractor—especially since they cost no more?

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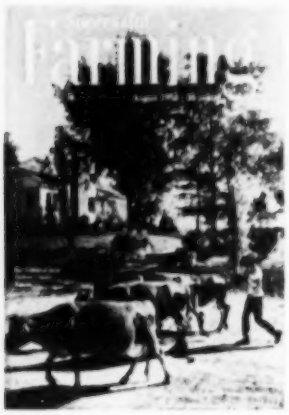
GOODYEAR

Super-Sure-Grip Tractor Tires

Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

This month



Photograph: Suter, Hedrich-Blessing

Farming is a family operation on the Roy Gilliland farm, Jackson County, Kansas. The whole family pitches in when it comes to dairying, gardening, 4-H Club work, or soil conservation.

The responsibility of feeding and milking the 20-cow registered Jersey herd falls almost entirely in the hands of the two sons, Keith, 16, and Kenneth, 14. There's a good reason for their interest in this phase of the farm operation. They're also reaping some of the rewards. Both are active in 4-H Club work, having started at the age of 10 with a heifer. Today, each boy has five females. That's Keith on the cover bringing the herd in for milking. Both boys have shown champion and grand champion cattle at local fairs.

Soil conservation plays an important part in Gilliland's farm operation. Seeding down to grass, contouring, and the use of clovers in a 2-year rotation are the backbone of his conservation program. An abundance of grass, combined with his dairy herd, gives him a good livestock-roughage balance. The first changes to a soil conservation program came back in 1936. The climax was reached in 1946 when Gilliland's farm was named the county soil conservation winner.

Today, Gilliland has his 240-acre farm in a wheat and clover-bromegrass rotation. Half of the tillable land is in wheat, the rest is in clovers and grasses. To date, Gilliland has terraced 160 acres of the 240-acre farm.

Besides his work in soil conservation, Gilliland has been active in the county Farm Bureau, of which he is a past president. His wife, Stella, takes an active part in 4-H Club work, and serves as the community leader.

The Gillilands look to the future with a hopeful eye. Good farm training teaches the boys how to take advantage of modern farming methods. Soil conservation assures them of future productivity.—*Vernon Schneider.*

Successful
Farming
The Dairy Farmer

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

August, 1952 Vol. 50, No. 8

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...CAN'T SEE THE FOREST FOR THE TREES

It's a common saying . . . and an all too common occurrence.

A man can get so involved in the day-to-day business of running a farm and raising a family that he loses sight of the "broader picture."

He loses sight of his *long-range* plans . . . for his children's future education . . . for his wife's security and his own financial independence.

And all because pressing, though less important, details take priority.

A broken pump gets fixed today. But life insurance can wait until "tomorrow." And all too often "tomorrow" never comes.

That's why it's so important to "step back" and take a good long look at your future—and at the life insurance you need to protect it.

If you haven't done this recently, there's no better time than now. And there's no one better qualified to help you than the New York Life agent serving your county. Why not call him soon?

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Farm Outlook

Latest information on conditions, production, markets, and income prospects

Plan now for '53

Start planning now for production of crops and livestock in 1953. Ease off on wheat, keep feed grains high, continue to improve pastures, boost the flow of milk, don't expand beef breeding herds, breed a few more pigs, hold laying flocks high.

Over-all prospect is that demand for food here at home will increase in 1953-54. But exports will be down from recent high levels. Prices received by you will slip only if farm production becomes too heavy for a small increase in consumer incomes.

No boom, no bust

Plan your production and marketings on the reasonable expectation that there will be neither boom nor bust in the next two years. Industrial production will rise during this period. Total value of goods produced will go up. People will have plenty of money to spend. Industrial employment will stay high. But, unemployment may rise in 1953-54 when defense expenditures are scheduled to decline. All expectations would be off if there is a substantial increase (inflationary) or decrease (deflationary) in defense production beyond present schedules.

Production supplies

Schedule now the production and harvesting materials you will need to buy for 1953. Prices aren't likely to decline. More and better farm machinery will be available this fall. There'll be more nitrogen and a little more potash. Supplies of most pesticides will be up. Good supplies of building materials are in the picture.

Farm labor

The big barrier to increased farm production is your inability to hire labor. There's a point beyond which mechanical power can't be substituted for manpower. That point seems near. Lots of acreage isn't being worked for lack of labor.

Farm labor supply *may* increase as industrial unemployment expands during last half of 1953—but don't count on it.

Wheat, wheat, wheat

Farm commodity in weakest immediate price position is wheat. Big 1952 crop and expected decline in exports during the next 12 months are the reasons.

Lowest wheat prices of crop year usually are in July and August, when one-third of total crop is marketed. Highest prices are in the following December and February. Cue for you is to sell less in early months.

Wheat carryover

Old-crop wheat carried over next July will be about 500 million bushels. This is considered a desirable reserve by U.S.D.A. officials. More would be excessive. That's why P.M.A. is urging a 10-percent cut in fall-sown acreage for 1953 crop.

Private view of government officials is that acreage *won't be cut* if the 1954 crop will be restricted by acreage allotments and marketing quotas. Government officials are certain that farmers will plant high this fall to build a "history" for 1954 production allowance and price support.

Better pork products

There's a big demand here at home for superior hams, shoulders, and bacon. Evidence of this growing trend is the increase in sales of Canadian and Netherlands pork products right in the middle of the Cornbelt. Pork imports have increased since the end of World War II, while our exports of pork have declined. The American appetite for meat is so great we are now importing five times the quantity imported seven years ago.

Beef cattle

August often brings the year's best advances in prices of Prime, Choice, and Good grade steers. This year, price increases for the top grades may be limited by larger marketings and price ceilings.

Late U.S.D.A. estimates imply that the supply of beef for the remaining months of this year may average 12 to 15 percent larger than it was for 12 months earlier. Any such increase in supplies would have the most apparent effect on prices of the lower grades of cattle.

If the lower grades become cheaper, packers will be permitted to pay more for top grades even though the present O.P.S. ceilings continue in effect. Very good premiums for Prime cattle usually develop about 12 months after a short corn crop.

Hog prices

Prices for August usually average highest of the year. This year, price advances seem likely to be limited by price ceilings on pork. The market value of lard and the O.P.S. limits on prices of pork seem to be equivalent to about $23 to $24 per hundredweight average for hogs.

The hog market should show more than usual strength through the early fall months. Market receipts then will be light because many farmers in Iowa and surrounding areas must delay finishing their hogs until after new corn is available.

Sheep and lambs

Many lamb feeders suffered big financial losses from 1951-52 operations. When these feeders bought their lambs, they did not figure on the big drop in wool and pelt values. Wool prices now have settled down near price-support levels. The coming feeding season won't be as bad as the past one, and should be much better.

Feeding efficiency

Broilers are the most efficient users of feed, followed by turkeys, hogs, beef cattle, and sheep. So say U.S.D.A. feeding experts.

Highly efficient commercial-broiler men produce a 3-pound bird with 9 pounds of feed.

Milk production down

Production of milk at midyear was slightly below that in 1951. Production this year is likely to be the lowest for several years. Whole-milk prices average about 8 percent higher than a year ago. **END**

More Weight on Broilers ...and on Hogs and Cattle, too!

Read how Aluminum Roofing helps turn Feed into Meat, Eggs...or Milk!

Mr. Ben Parks and Miss Kathleen McClure are co-owners of Quality Hatcheries, Inc., Winder, Georgia. They have 10,000 birds in their 44' x 160' broiler house. Roofed with Reynolds *Lifetime* Aluminum 5-V Crimp, this house has gas heaters, automatic water and automatic feeders. Says Mr. Parks:

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Dairy farmers, too, are finding a big dollar-difference in milk production with aluminum roofing and siding to take off summer heat. The same goes for weight gains in hogs and beef cattle. Every warm-blooded animal benefits from the cooling effect of aluminum in summer.

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When it's CLOROX-clean... it's SAFER for Family Health!

Friend to Friend

The A.C.P. payments

Over the protests of our two major farm organizations, the Farm Bureau and the Grange, Congress has approved a new Agricultural Conservation Program appropriation. Of course, there is a national election just ahead! Doubtless the leaders of the above organizations recognized the hopelessness of cutting such payments this year. Next year the situation will be different.

I have seen many farms on which A.C.P. payments were necessary if any move toward soil conservation was made. These farms were largely in the Old South. But when the payments are used for lime, seed, and fertilizer on Midwest farms, they are indefensible, in my opinion. I am opposed to them, because no obligation is placed on the farmer to follow up a conservation program. Instead, he exploits such fertility, as a rule, in one short rotation.

You can argue for legumes as the foundation for soil conservation, and make a point. But the job is only started. Flights across the Cornbelt, by my associates and myself last spring, revealed a tragic disregard of soil losses. Grassed waterways were chewed up by machinery, and so narrow that ditches were forming at both sides. Attempts to plant on the contour were hard to find, and an honest job of contour farming was a rare gem in a ravished farm landscape. From 3,000 feet, the value of contour farming at corn-planting time was remarkably clear. We have been "getting no place fast" in soil conservation in the last few years, as actually applied to the land.

To fail now in our efforts to conserve soil will be a tragic blunder for two major reasons: (1) the loss of a basic resource, and (2) loss of public confidence in the farmer. The nonfarming part of our public is thoroughly sold on soil conservation. Asking for public tax money to aid conservation, and failing to produce greater results after 15 years is going to be extremely bad on public relations for agriculture.

Fat pork not wanted

I am encouraged whenever I hear of a *feeding* program to produce lean pork instead of a *breeding* program to do this needed job. It is my belief that environment has more to do with lean pork chops than whether or not the hog has spots or is a solid color.

I am convinced that heavy grass feeding of hogs, using a very limited amount of corn, will produce the so-called meat-type hog now in demand. The drawback to heavy grass feeding is the longer period required for the hogs to reach market weight.

Perhaps the new substitutes for sow's milk may give us another boost toward leaner pork cuts. From talking with our livestock editor, Dick Hanson, I get the impression that substitutes for sow's milk produce rapid weight gains during the first few weeks of a pig's life. How fast pigs gain on substitute milk seems to depend mostly on the man who's doing the feeding. Good management is even more important than allowing pigs to suckle the sows.

There will be many pigs put on this type of feeding program this summer and fall. There are still "bugs" in this method of raising pigs, but most farmers who have used substitute milk are convinced these problems can be worked out. You can be sure the companies making substitute milk will make any necessary improvements in their products.

If we can get very rapid weight gains up to weaning age by using the substitute milk, one of the biggest objections to grass-feeding hogs will be minimized. The longer finishing period will be offset, somewhat, by faster gains from birth to weaning.

I will be very interested in the results obtained by farmers feeding a substitute sow's milk this summer, and to some degree, with grass. Their results may indicate that we have a new weapon in the fight against fat.

A vanishing cattle

My hat is off to the hardy pioneers who are succeeding so well in a new agriculture in the Old South. It's time some public-spirited person set up a refuge in which to preserve a herd of the scrawny, native cattle of Florida, Georgia, and Alabama. Their great horns and spare hindquarters will be as much of a spectacle in a few years as a herd of tame buffaloes. Like the buffalo, they are on the way out.

Kirk Fox

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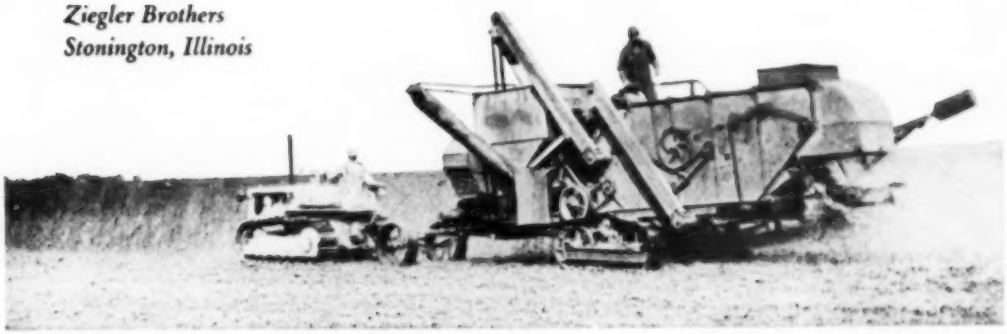

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- "This is our 3rd 'Cat' track-type Tractor. I ran the other two for ten years each, and one is still going strong after 14 years.
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- These are the personal observations of Kenneth Ziegler, of the Ziegler Bros., Stonington, Ill.

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by Suzanne Ball

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A bushel of peaches yields 18 to 24 quart jars; tomatoes, 15-20 quarts. By now, you've probably filled all last year's jars and will need new ones. Be sure you get Ball DOME Jars, the only kind that comes with those wonderful "Touch-Test" Ball Dome Lids.

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Tips you can use today

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Hand sprayer. This hand sprayer has a nozzle which can be adjusted to produce a fine spray or a 30-foot stream. The intake end of the hose is weighted to keep it in the container.—*World Industries, Inc., 2407 Maple Ave., Dallas 9, Texas.*

Farm plane. This airplane has been designed especially for farm use. The small plane can be used for either dusting or spraying. Dust compartment holds 700 pounds; spray compartment will hold 110 gallons of spray material. Important advantage is said to be the ability of the plane to take off and land in short distances on ordinary rough, unprepared fields.—*Piper Aircraft Corporation, Lock Haven, Pennsylvania.*

Grain and hay elevator. This portable elevator can be used for both baled hay and grain. The elevator trough is 19 inches wide. The elevator comes equipped for powering any of four ways: tractor power take-off, speed jack, gasoline engine, or electric motor.—*LML Engineering and Manufacturing Corp., Columbia City, Indiana.*

Big Girls Now...

GROWTH CHART of CALVES

FROM 3 DAYS TO 8 WEEKS

Calves receiving no antibiotic

Calves Receiving TERRAMYCIN

Terramycin increased the rate of growth of dairy calves by more than 20% in typical experiments conducted by a leading state university. This is good news for dairy farmers who want large-sized heifers for herd replacement. As you can see from the chart, the tests were from 3 days to 8 weeks. Calves receiving Terramycin showed a gain of 21.1% over those with no antibiotic in the feed. In addition, calf scouring was significantly reduced and feed efficiency improved. This is another example of the benefits of Terramycin, another important Pfizer contribution to the farm.

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Books

for your pleasure and profit

By Robert West Howard

I suspect that a lot of men read cook books as eagerly as the ladies do. I, for one—my waistline betrays this fact.

My waistline's one good reason why I'm paying particular attention right now to the new **Low-calory Cookbook** by Bernard Koten (Random House, 457 Madison Ave., New York 22, New York, $2.95). The author claims to have lost 60 pounds in eight months following his own recipes—and eating enjoyably three times a day. The foreword is by Dr. Donald Armstrong of the Metropolitan Life Insurance Company, so the book has medical authoritativeness.

Just the same, I go right on eyeing the other cook books, especially since many of them are using mouth-watering color photographs of their most elaborate dishes. As heady as a threshing crew's dinner is **The Mennonite Community Cookbook** edited by Mary Emma Showalter and authorized by The Mennonite Community Association of Scottdale, Pennsylvania (John C. Winston Co., 1010 Arch St., Philadelphia 7, Pennsylvania, $3.95). Here are 490 pages of goodness by the most famous group of cooks in American history, those poke-bonneted ladies who invented shoofly pie, scrapple, ginger cookies, and coleslaw.

For now-and-then cookery, I like the following:

Mexican Cookbook by Erna Fergusson (University of New Mexico Press, Albuquerque, New Mexico, $2) is 120 pages of "south-of-the-border" foods, quince butter to green *chile* stew and brown-sugar candy.

The House of Chan Cookbook by Soo Chan (Doubleday & Co., 575 Madison Ave., New York 22, New York, $2.50) is 190 pages of excellent Chinese-American recipes.

The Southern Cook Book by Marion Brown (University of North Carolina Press, Chapel Hill, North Carolina, $4.50) rounds up 372 pages of the South's culinary best—spiced beef, chicken Creole, pine-bark stew, beer cheese, shrimp mull.

Also deserving a place on the kitchen shelf is **Food Becomes You** by Dr. Ruth M. Leverton, professor of human nutrition at the University of Nebraska (University of Nebraska Press, Lincoln, Ne-

braska, $3.50). It is a brisk, homey guide to good health through food, amusingly illustrated.

Out beyond the kitchen door, the sun and rain and good earth are the "source materials" for all our food—even food that comes from the sea. Scientists call the farm our "renewable resource" in contrast to coal, oil, iron, and mineral reserves. There's long been need for a book to report just what we do have on earth in the way of "energy sources." Now, it's finally written and is an exciting and important report. It is **Energy Sources—The Wealth of the World** by Eugene Ayres of Gulf Research and Development Co. and Charles A. Scarlott, editor of *The Westinghouse Engineer* (McGraw-Hill Book Co., 330 W. 42nd St., New York 36, New York, $5). The authors set out to determine just how long the world's existing fuel supplies will last, and what can be done after they are used up. Their investigation concludes, as farmers have long known, that the greatest potential sources of fuels are in sunlight and the products of that familiarly mysterious "what makes grass green" process known as photosynthesis. Here is an important reference volume for farmers.

A companion volume in breadth of vision and scholarliness is **Land for Tomorrow: The Underdeveloped World** by Dr. L. Dudley Stamp (Indiana University Press, Bloomington, Indiana, $4). Doctor Stamp, who played an important role in the rebirth of Great Britain's agriculture during World War II, herein takes a long, keen look at all the areas of earth where farming might be "stepped up." He comes to the conclusion that the greatest opportunities lie in the "middle-latitude countries," including the United States. He believes the United States could raise enough to feed a half-billion people on an adequate diet.

Despite all the campaign books and candidate biographies that are bound to show up this summer and fall, I feel that the most important political book in this presidential year is **Marx Against the Peasant** by David Mitrany (University of North Carolina Press, Chapel Hill, North Carolina, $4.50). Here, at last, is historic proof that Marxism, hence communism, has been opposed to rural freedoms and farm enterprise since its birth in the London slums a century ago. Doctor Mitrany, a member of the Institute for Advanced Study at Princeton, New Jersey, shows that the inescapable end for any farm party aligning with communism is, and always has been, destruction of all its dreamed-for freedoms. Irrespective of any of our individual political beliefs, the world-wide farm struggle against communism is the greatest issue of the 1952 election. I believe that **Marx Against the Peasant** and Justice William O. Douglas' **Strange Lands and Friendly People** (reviewed in February column) are the two most essential books for pre-election reading by American farm families this fall. **END**

THE SAME GOOD FEELING—

✓ A Well-Stocked Pantry
✓ Coal in Your Storage Bin Now!

YOU'LL BE READY FOR WINTER—AHEAD OF TIME!

The "getting-ready" season, whether for canning or stocking up with coal, is *now!* Both make sure you'll be ready when winter clamps down. And with your coal in the bin right now, you'll never worry about a sudden cold snap.

GET THE COAL YOU WANT—WHEN YOU WANT IT!

With every furnace and heater one size and type of coal burns *best*. Order it now and be sure of getting it—name your own delivery date. It's easy and safe to store enough coal to last the winter—something you can't do with other fuels.

DON'T GET CAUGHT AT THE BOTTOM OF YOUR DEALER'S DELIVERY LIST.

The first cold weather brings a rush of fuel orders—for your dealer and for the railroads that serve him. By ordering early you avoid possible delays—never have to worry about snow-blocked roads holding up a fuel truck. Get in touch with your coal dealer this week—be well-stocked with comfort for the months ahead.

7 good reasons why coal is the most popular fuel in up-to-date farm homes

1. Steadier warmth—no "on-again, off-again" flame!
2. Fewer "cold pockets"—fewer colds!
3. Automatic with stokers and controls!
4. Easiest and safest to store!
5. Lowest price almost everywhere!
6. America's vast reserves make supply dependable!
7. America's dependable supply assures price stability!

FOR ECONOMY AND DEPENDABILITY

YOU CAN COUNT ON COAL!

BITUMINOUS COAL INSTITUTE, A Department of National Coal Association, Washington, D. C.

"When you telephone, it goes in there"

That's right, son, the voices of people for miles around go into this building and come back out again. People getting farm work done, or talking to neighbors, or saving a trip to town.

This attractive little building is the telephone nerve center of the community. The equipment handles local calls automatically, and enables you to get an operator when you want to call someone at a distance, or need assistance.

Many of these offices are in use or going up in Bell System rural areas. They're a big factor in getting our expansion job done.

Just as modern farm machinery helps you, such modern equipment helps us supply more and better rural telephone service, faster.

BELL TELEPHONE SYSTEM

Farm politics: 1952

It features the usual charges, promises, threats. But both sides talk the same basic farm program

As the political campaigns warm up to a climax this fall, farm policy will come in for its share of attention. But no single farm question appears to be of overriding importance this year.

In 1948, the Democrats made a lot of political hay with farmers over the issue of government-owned grain-storage facilities. Republican votes in Congress had killed a provision for building or buying new government bins. As it turned out, storage space was not a vital factor in making the corn loan of 1948 effective. But President Truman and Secretary Brannan made it appear that the Republicans were out to "sabotage" the whole program. And their tactics were effective.

This year, the Republicans are being very careful not to get in such a position. There is universal backing for price supports and loans on the basic crops, and the level of supports does not look like a big issue. Both Democrats and Republicans in Congress seem to be agreed on keeping supports for grains and cotton 90 percent of parity.

A 10-state conference of Republican farm leaders issued a statement of policy for the guidance of the G. O. P. convention on a farm plank. It marked out no new ground in farm policy. In fact, it was an indirect endorsement of most of the programs now in effect.

The Democrats do not seem to be coming forward with anything brand new in farm programs, either. Lots of people thought Secretary Brannan's controversial Family Farm Policy Review of last fall was laying the groundwork for the 1952 political campaign. But Mr. Brannan has not made any attempt—up to press time—to exploit "results" of these meetings. Moreover, the Brannan Plan of high farm price supports, using supplementary income payments on perishable products, has not been in the limelight so far this political season.

Secretary Brannan hasn't changed his mind about the need for this kind of farm price-support program. But he probably senses that the enthusiasm for his plan has been something short of sensational. The violent opposition to the Brannan Plan by the Farm Bureau, and the Bureau's equally violent reaction to the Family Farm Policy Review, may have discouraged Democratic headquarters from pressing the fight on these matters.

The Democratic strategy for this campaign seems to be to "look at the record" of farm prosperity, rather than to push forward any new programs.

You can expect to hear more about the rise in farm prosperity from Democratic campaigners. They'll claim "government farm programs" are the happy cause of it all. But you won't hear much reference to the *real* underlying causes for this boom—World War II, the Korean war, and heavy armament production.

The Republicans, on the other hand, can be counted on to emphasize the role of general business improvement in creating American farm prosperity.

Earlier this year it appeared that price controls might be the chief issue among farmers in the '52 campaign, and they still could become important. But the fact that most prices have been running below ceilings has taken a lot of the heat out of that one. The general Democratic line is that ceilings are needed and should be kept on a stand-by basis. But this will be soft-pedaled in approaching the farmers.

Both Republicans and Democrats will try to escape the logic that high price supports lead to price ceilings. The Farm Bureau and the Grange have been hammering on this for months. They have been saying that farmers cannot expect to escape ceilings on their prices if they demand high props underneath. But the politicians don't like to face up to that proposition.

Republicans and Democrats alike are going to attempt to make political capital out of the potato situation. Secretary Brannan has been blaming the potato shortage of last spring on the lack of price supports.

Republicans will declare that the ceilings placed on potato prices in January, 1952, discouraged plantings and made the shortage worse.

When you simmer it all down, it appears that farmers can count on strong backing for price supports from nearly everybody in this campaign. There seems to be general acceptance of present-style buying and loan programs to peg up prices of the basic crops. Nobody but the Farm Bureau and the Grange is battling very hard for the flexible principle of moving supports downward when supplies increase. The politicians are convinced that most farmers want a fairly high guaranty at a fixed percentage of parity.

Farmers are pretty sophisticated about politics, and they aren't likely to take very seriously the campaign promises or the platform planks. What they will be looking for will be the *general attitudes* of the parties and candidates toward farming and the place it fills in the American business picture. They won't worry so much about specific *farm* programs as about fundamental policies on world affairs, national defense, and keeping the American economy productive.

After all, no farm program is so important to farmers as the peace of the world and the over-all health of the American economic system. END

Brushing Teeth Right After Eating with
COLGATE DENTAL CREAM
STOPS BAD BREATH AND STOPS DECAY BEST!

Colgate's Instantly Stops Bad Breath In 7 Out of 10 Cases That Originate in the Mouth!

It cleans your breath while it cleans your teeth! Brushing teeth right after eating with Colgate Dental Cream gives you a *clean, fresh* mouth *all day long!* Scientific tests *prove* in 7 out of 10 cases, Colgate's *instantly* stops bad breath that originates in the mouth. No other toothpaste has proved so completely it stops bad breath. No other cleans teeth more effectively, yet so safely!

Yes, the best way is the Colgate way! In fact, brushing teeth with Colgate Dental Cream right after eating is the most thoroughly proved and accepted home method of oral hygiene known today. The Colgate way stopped *more* decay for *more* people than ever before reported in dentifrice history! Yes, to help stop bad breath and tooth decay at the same time, the *best* way is the *Colgate* way!

PURE, WHITE, SAFE COLGATE'S WILL NOT STAIN OR DISCOLOR!

The farmer's Washington

By Richard Wilson

- **Brannan and Kem feud may decide farm vote this fall**
- **Point Four program has taken anti-Communist turn**
- **Farm credit will be difficult to get this year**

Feud. Every once in a while Washington produces a real feud. There is one on now between Senator James P. Kem of Missouri and Secretary of Agriculture Charles F. Brannan.

Kem says Brannan ought to get out because his conduct has given the farm program an "undeserved black eye."

Brannan rejoins with charges that on 31 specific roll calls in the Senate, Kem has been "against nearly everything that farmers need."

In a nutshell, these two points of view have become the farm issue of 1952. Kem is running for re-election. Brannan's aim is, like President Truman's, to keep in the campaign and justify his record.

Brannan has issued a score of complicated statements defending the administration record. Governor Thomas E. Dewey and a half-dozen senators have gotten into the fray.

Dewey charges farm prices were "rigged" downward in 1948 to swing the farm states against him. Brannan says this is poppycock, and the downward fall was due to the Republican 80th Congress' failure to enact an adequate farm storage program.

All this is providing an extensive campaign document for both sides to use in what may prove to be the biggest fight in history for farm votes this fall.

A new Point Four. One of the most interesting, overlooked developments in Washington is the change which is overtaking the foreign-aid program called Point Four.

This was an undertaking, conceived by President Truman's associates, to spread American know-how in agriculture over the world. The program started small, is steadily growing bigger.

But now the Point Four program has taken an anti-Communist turn. This makes it possible to justify it on a grander scale.

Also, instead of sending technical help abroad, it is part of the administration's program to send large-scale gifts. A program was devised to send $106 million worth of supplies and equipment to India. This accounted for three-fifths of the program asked for in Congress by the administration.

Hiram Bingham, until recently acting director of the program, looked forward four years to the elections in India. He pointed out that in that huge country's first elections recently, the Communists showed surprising strength.

Critics of the program point out that economic aid has not, in fact, permanently stayed communism in countries where it has been used. This is true, it is charged, in both Italy and France. Or, if communism has been set back, it is continually necessary to put up more money when new elections impend.

Democratic critic. Senator Paul Douglas has been a hair shirt for his fellow Democrats in Congress. The Illinois senator just won't conform. Now he is riding the farm program.

In a new book entitled *Economy in the National Government*, he uses De Kalb County, Illinois, as a horrible example. That county, he says, has 178 federal employees "just to tell farmers what they should do, what they can do, and, in some cases, what they cannot do."

The cost, he says, is $86,000 per year for the 2,500 farms in the county. That averages $35 per farm per year.

Douglas argues that consolidation of functions of these various federal employees has gone nowhere far enough, and he places the blame generally on the political weakness of successive secretaries of agriculture.

Note of caution. Amid all the clamor about the prosperity of the farmer, there are still some cautionary notes. The staff of the Senate Agriculture Committee found this in a survey of the nation's farm debt and credit structure.

In the first place, they found farmers are having more difficulty now meeting their current operating and living expenses than at any time since the end of World War II. Use of credit has doubled in the past five years, and many farmers are having trouble because of drouth, a bad corn crop last year, or floods.

Production credit officials expressed concern because 50 percent of their loans last year in the western Cornbelt were not paid on time. Many farmers have obtained livestock loans and did not receive a large enough return to pay them back and make a profit.

Bankers told the committee they would take fewer loans than last year because of farmers' inability to provide adequate security and of unfavorable farm-income prospects. END

Christmas comes early!

...to Standard Oil Customers

Shop early and SAVE on

Standard's famous FARM DEAL!

Shop now and put your savings in the sock!
You earn biggest savings with Standard's Farm Deal . . . the discount plan preferred by Midwest farmers 2 to 1 over any other. The more you order, the more you save. All you do is order in advance, pay later.

See what you save! Order in advance Standard's high quality motor oils and get good discounts. Save, too, on 25% DDT Concentrate, Weed Killers, Liquid Gloss, Liquid Wax, Insect Sprays and many other items for farm and home.

Put Standard's motor oils at the top of your list. Choose from three famous farm-tested brands: PERMALUBE, ISO-VIS and POLARINE Motor Oils. Order your year's supply now. You get price protection, substantial discounts, quality products, dependable delivery all from one man. For money-saving details . . .

Your wife will love the savings, too!
Ask your partner! She knows what it means to have supplies on hand when she needs them. Plenty of good household needs in the deal. You pay nothing down. Only on delivery.

Call your Standard Oil Man today!

Standard Oil Company (Indiana)

STANDARD

Even Grimiest Hands Clean in 30 to 50 Seconds with amazing LAVA SOAP...

Of all leading soaps ONLY LAVA has "HAND-BRUSH ACTION" right in its creamy lather!

Contains thousands of tiny "scrubbers" that clean like a gentle hand brush—get dirt out of skin creases, 'round nails!

Zingo! Hands sparkling clean in seconds—no matter how greasy or grimy the chore! No ordinary toilet soaps compare. Yet Lava is *mild* enough for tots! Get plenty today. World's *only* leading soap with "Hand-Brush Action" right in its creamy lather!

Enjoy Lava's "Hand-Brush Action" *whenever* hands are washed!

★ Rich lather in hardest water!
★ Leaves hands softer, smoother!
★ Saves towels; no more smudges!

LAVA SOAP CLEANS LIKE A HAND BRUSH... LATHERS LIKE CREAM!

Get the most

from your

Feed dollar

Feed represents more than 60 percent of the total cost of producing broilers. A recent study by the Bureau of Animal Industry of more than 100 lots of commercial broilers showed that each decrease of 1 pound of feed per pound of broiler resulted in a saving of almost 5 cents per pound. On a 3-pound broiler the saving could amount to 15 cents—often more than the entire net profit.

This same study also showed a wide range of efficiency among different flocks. The best flocks required only 2.7 pounds of feed per pound of gain, whereas the poorest needed 6 pounds. Thus, the difference in producing a 3-pound broiler was about 50 cents in feed cost alone.

Know your feed

Most broiler producers use a commercial broiler mash. For greatest efficiency, the mash must supply protein, vitamins, and essential mineral elements, together with essential amino acids at levels as near ideal as possible. The tag on the bag of feed does not tell the quantities of all these nutrients in the feed, but it provides some important information that the producer can't afford to neglect.

Read the label

The tag tells the kind of feed—"Broiler Mash." A feed labeled "Growing Mash" might be intended for pullets on good pasture and would be unsuitable for birds confined to a broiler house. It tells the manufacturer's name. You have to rely on the integrity and ability of the manufacturer for the right formula, high-quality ingredients, and adequate mixing.

The tag gives guaranteed minimum figures for protein and fat content and guaranteed maximum figures for fiber and ash. A broiler mash should guarantee at least 20 percent of protein and not more than 5 percent of fiber.

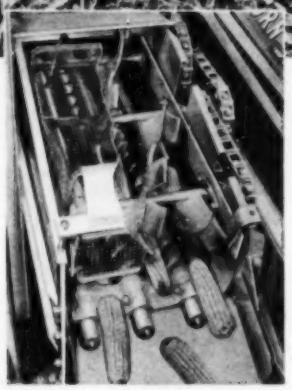
Feed it right

Mash should be kept before the birds all the time, and fresh mash should be added to the hoppers at least once a day. Scattering feed on sheets of paper or cardboard for day-old chicks often helps to increase early feed consumption. The paper or cardboard should be removed after two days as it becomes unsanitary.

Provide plenty of feeder space. During the first two weeks provide 5 feet of feeder space for each 100 chicks. From the third through the eighth weeks, there should be 10 feet of feeder per 100 chicks, and after the eighth week, 15 feet. Feeders should be designed to prevent waste and allow feeding from both sides. END

Beat 6 or 8 Champion Hand Shuckers

..WITH A DEARBORN-WOOD BROS. CORN PICKER!



The Big 6-Roll Husking Bed

HAS SPARE CAPACITY ...TO KEEP AHEAD

Here's the big capacity husking heart (effective area 13¼" wide by 36" long!)—a major reason why the Dearborn-Wood Bros. Corn Picker *clean husks* so much corn per hour. Three "flexible fingered" spirals feed corn evenly to this 6-roll husking bed.

This Fast Picking One-Row Unit Keeps Haulers Humping... *And Then Some!*

In 'most any cornfield you put the one-row Dearborn-Wood Bros. Corn Picker, it can beat 6 to 8 champion hand shuckers! And that means in clean picking; in clean husking; and in bushels of corn put on the wagon.

Because of the positive, yet gentle, action of the exclusive rotary snapping bar the gentlest of snapping rolls are used. This assures a minimum of shelling, positive snapping and a steady, uninterrupted flow of corn through the picker—even under tough conditions.

And the Dearborn-Wood Bros. Corn Picker is the one with a full sized 6-roll husking bed. Rubber husking rolls teamed with steel ones are evenly fed by patented "flexible fingered" spirals—all helping to give great husking capacity, with another big reduction in shelling, or scuffing of ears.

No wonder this light-draft, one-row picker more than keeps haulers humping—commonly husks 8 to 10 acres of high yielding hybrid corn, per 8 or 9 hour day. Operate it with your Ford Tractor, or any other 2-plow tractor.

Be ready to cash in this fall with your Dearborn-Wood Bros. Corn Picker. See your nearby Ford Tractor dealer soon.

DEARBORN MOTORS CORPORATION • Birmingham, Michigan

National Marketing Organization for the Ford Tractor and Dearborn Farm Equipment

PROOF-METER · ONLY FORD TRACTOR HAS IT

Ford Farming MEANS BETTER WORK ...MORE PRODUCTION

NATIONALLY ACCEPTED

REPUBLIC FREEZETTES

Millions were sold last year. Freezettes* are unbreakable. Will not break, chip or crack. So easy to fill. Can be used again and again.

Freezette covers provide a moisture-vapor-tight seal. Easy to put on—just snap in place. No taping or wrapping. A tight fit—they keep out odors and protect food.

Freezettes are made of marvelous all-flexible plastic known as polyethylene. Easy to empty—no mess. Just flex bottom and out comes the food.

Buy a supply of these at your dealer. Freezettes stack side by side or nest in your freezer or locker without waste of space. If you cannot buy them at your dealer, write us.

Look for the Freezette package —five sizes to meet all needs.

A product of Republic's famous Polly-Flex Housewares*

REPUBLIC MOLDING CORPORATION

6463 N. Avondale, Chicago 31, Illinois

*T. M. U. S. Pat. Off.

What's new

in homemaking

Automatic washer with "magic heater," this new Snow White model gives a boost to the water temperature as it fills the tub. Because water often cools while passing from the hot-water tank through cold pipes to the washer, a built-in 110-volt unit has been designed to raise the water temperature automatically 10 to 15 degrees and to keep water hot during the wash cycle. Result: cleaner, more sanitary clothes. A device which stops the timer until washer is filled helps solve low-

water-pressure problems by insuring a full-length wash cycle. Available at Bendix dealers at approximately $299.95.—*Bendix Home Appliances Division, Avco Manufacturing Corporation, South Bend 2, Indiana.*

Vocatron is a portable two-way communication unit that can save you hundreds of needless steps in the house and around the farm. Without leaving your kitchen, you can talk to the men working

at the barn or listen for the baby upstairs. Vocatron requires no installation, is simply plugged into any 105- to 120-volt AC or DC outlet. Uses standard radio tubes. Takes no more electricity than a light bulb. Units are portable, weigh only 3½ pounds. By mail only, $79.50 a pair, plus express collect for 10 pounds.—*Bayfort Society, P. O. Box No. 1808, Charlotte 1, North Carolina.*

A bathtub in this new square style fits compactly in a small space. Only 14 inches high, the tub is ideal for bathing

children and for taking showers. Outside dimensions are 42x36 inches, and it weighs ⅕ less than most tubs. Colors: white, blue, tan, green, and peach. See local plumbing dealer—or for details, write to *Kohler Company, 431 N. Michigan Ave., Chicago 11, Illinois.*

Ice-cream-freezer time again—why not let a new electric one do the work? This one, the "Dolly Madison," comes in 2-, 4-, and 6-quart sizes, works on 105-115-volt AC current. Sturdy wood tub is finished in pastel gray. Manufacturer guarantees workmanship and material for a year. Buy it at hardware, appliance, and department stores for about $24.95, plus excise tax.—*J. E. Porter Corporation, Ottawa, Illinois.*

Electric freezer with a 1-quart plastic tub makes quick work of frozen desserts. Can use ice cubes from the refrigerator. Also (pictured) in a 4-quart size with blue and white wood tub. Requires 115-volt AC current. The "Handyfreeze" 1-quart is $19.95; 4-quart is $28.95. At department, hardware, and appliance stores.—*Chicago Electrical Manufacturing Company, Chicago 38, Illinois.*

More Go!

Less Gas!

Drive it Yourself!

DOLLAR FOR DOLLAR YOU CAN'T BEAT A PONTIAC!

- More Powerful High-Compression Engine!
- New Dual-Range Hydra-Matic Drive!*
- New High-Performance Economy Axle!

When it comes to downright driving pleasure the best place in all the world to be is behind the wheel of a new Dual-Range Pontiac!

In the toughest traffic or over the longest drive, this great Pontiac always delivers exactly the *power* you want, *when* you want it, *where* you want it—automatically!

Just about all you need do is sit back and steer—knowing that your Pontiac will respond instantly to your every driving command. You have superb acceleration and power under your foot; wonderfully easy and positive control in your hands.

And best of all, Pontiac delivers you the most wonderful miles of your life at very, very low cost. For Pontiac is a low priced car to buy, an extremely economical car to drive, and a car that will deliver you years of pleasure with only routine maintenance.

If you want more go on less gas—go Pontiac! Your nearest Pontiac dealer will show you why *dollar for dollar you can't beat a Pontiac!*

*Optional at extra cost

PONTIAC MOTOR DIVISION OF GENERAL MOTORS CORPORATION

Pulling a Combine is *Heavy Duty* Work!

Heavy Duty Work Calls For Phillips 66 Heavy Duty Premium Motor Oil. Tractors are called on to do any number of tough jobs on the farm. Wear and tear on the engine results . . . *unless* you are particular about your oil. Guard against undue wear, corrosion, sludge and varnish deposits with the oil that's designed to stand up under rugged operating conditions—the oil that can take it! Use Phillips 66 Heavy Duty Premium Motor Oil in all your farm engines. It has the quality and dependability you want and need. See your Phillips 66 Dealer or Tank Truck Driver.

Get Phillips 66 Heavy Duty Premium Motor Oil...

WITH ALL OF THESE GREAT ADVANTAGES:

LOW OIL CONSUMPTION: Phillips 66 Heavy Duty Premium Motor Oil resists decomposition—keeps oil control rings free. Fewer make-up quarts are needed over long hours of operation.

BEARING PROTECTION: Engine acids are neutralized—so that bearing surfaces are effectively protected against pitting.

CLEANING ABILITY: A clean engine means more power, and less gasoline consumption—better all around performance!

WEAR PROTECTION: It reduces corrosive wear in your engine—guards piston rings and cylinder walls.

FOR YOUR CAR, TOO! Phillips 66 Heavy Duty Premium Motor Oil provides that extra measure of protection you want for your car.

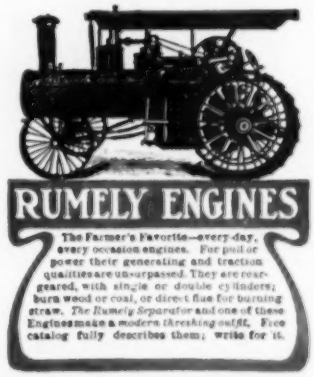
GET NEW, IMPROVED *"Lubri-tection"*

WHAT WAS NEW IN FARMING

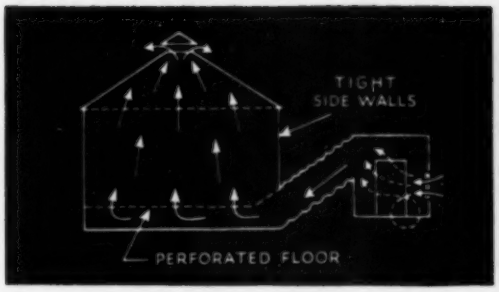
50 Years Ago

During *Successful Farming*'s 50 years of publication, much progress has been made in farming and farm living. Here, for example, was fashionable lighting in 1902

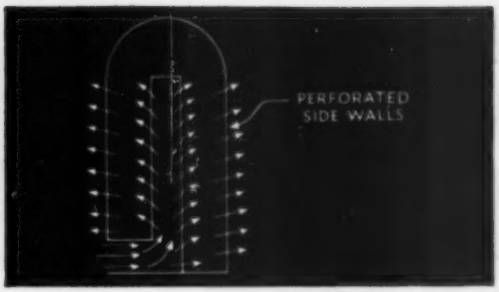
Quite a wardrobe for $10, don't you think? Here was something different—two coats, a vest, but only a single pair of pants



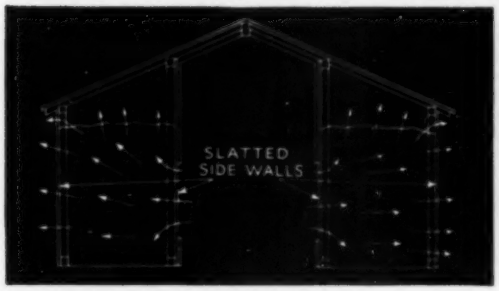
To many of us there's a certain nostalgia for the steam engine, the water wagon, and the threshing rig. Perhaps not for Mom, though, with 20 to 30 men for dinner



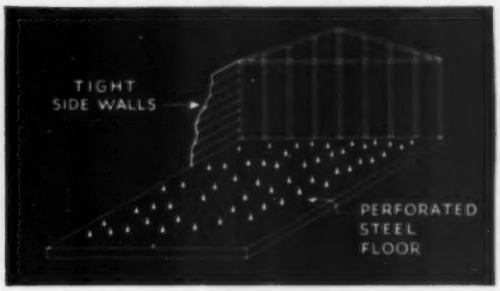
1. *This grain bin-portable dryer system dries any type small grain, shelled corn or ear corn.*



2. *This vertical steel building with perforated side walls is designed for drying ear corn with fan or portable crop dryer.*



3. *A conventional double corn crib, converted for drying ear corn.*



4. *Tight rectangular buildings with perforated floors dry small grain, shelled or ear corn.*

How to increase this year's crop

Every year you stand to lose up to 20% of your corn and small grain because of bad weather, losses in the field, and spoilage in storage.

But by improving your drying and storing methods, you can avoid this waste and increase the net yield from your *present* acreage.

When you use a portable crop dryer you can harvest at the right stage of maturity. This keeps field losses low and means less worry about bad weather. A modern dryer does a first-rate drying job. It reduces the moisture in your grain and eliminates spoiling in storage.

Modern steel storage buildings are strong and durable, and are designed for efficient drying. When your crop is dried these buildings protect it from storms, rodents, birds, lightning and fire.

Armco Special-Purpose Steels in buildings and dryers help you increase your profits. Armco Stainless Steel and Armco ALUMINIZED Steel in crop dryers give you high heating efficiency. They resist combinations of heat and corrosion too. In steel buildings, Armco ZINCGRIP assures long protection against rust. Fill in and mail the coupon for complete information.

ARMCO STEEL CORPORATION
322 Curtis Street, Middletown, Ohio

Please send me

- ☐ further information on modern hay drying methods
- ☐ names of portable crop dryer manufacturers
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THE ARMCO INTERNATIONAL CORPORATION, WORLD-WIDE

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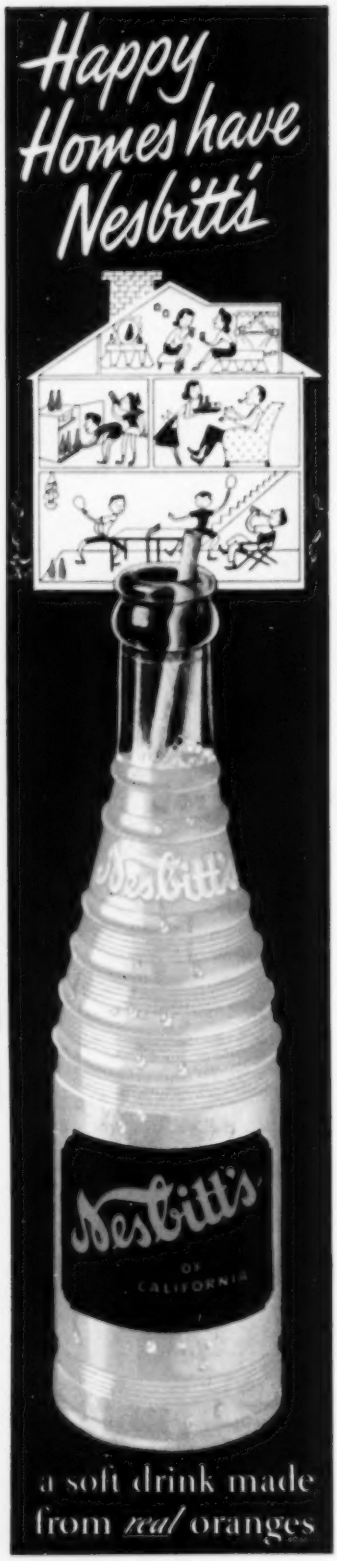


Before your child starts to school

By Elma Waltner

If your child starts to school for the first time this fall, you are probably wondering—as I did—what's the best way to prepare him so he'll adjust easily to the new experience. Here are some of the pointers I learned after interviewing several kindergarten and first-grade teachers.

First off, all the teachers stressed that they'd rather mothers didn't try to teach their children the Three R's. The difference in parents' teaching methods and the teacher's may only confuse a beginner. Then, up to 6 years of age, a child's eyes and arm muscles are seldom ready. The following are much more important:

Awaken interests. Give your child a varied range of information through stories, poems, picture books, and intelligent answers to his many questions.

Give him some crayons so he can ex-

press himself on paper, a pair of blunt scissors, and a stack of old magazines to cut up to his heart's content. Or show him how to model with clay. Take him on little trips in the car and point out objects to him; then talk about them later. Most children are naturally curious and should be given chances to explore new fields.

Teach self-reliance. Give him the know-how which will help him become independent. Gradually free him from your apron strings. Be sure, for instance, that he knows how to put on his outdoor clothing. His teacher will bless you for it. Let him visit away from home for an afternoon or even overnight. Let him run short errands to show him Mommy doesn't *always* need to be right beside him. Add confidence, too, by helping him learn to spend money wisely with little purchases of his own with money earned at home. Be sure he learns the "rules of the road"—how to cross streets and ride his school bus safely.

Develop health habits. Train him in cleanliness and the simple rules of health, such as washing his hands before eating

and after using the toilet, using his handkerchief, and sitting and standing up straight. Take him for a preschool check-up with the family doctor and dentist.

Help him belong. Teach him how to get along with a group. Every teacher hopes that her little pupils will know how to share ideas and playthings and enjoy their classmates. She hopes you will have

taught your cherub to be a good listener and follow directions so that she need not give arbitrary commands. She will look for good manners in eating and thoughtfulness of others, insofar as it is possible for a young child to be courteous. He'll adjust more easily to his new classmates, too, if he knows how to skip rope, bounce,

[*Turn to page 26*

"Look what *I'm* reading!

"No *kidding, Ed . . . the* EDITORIAL *page!*

"You know me, Ed...I'm strictly a sports page guy. But when I was home in bed last week with that blasted head cold, I didn't have much to do but read the paper.

"So, with time to burn, I looked at everything but the recipes . . . which is Marge's department, anyways. And, Ed, what I read in those editorials made me mad enough to forget I felt punk.

"One was about *'Creeping Socialism'*. It told what's going on right under our noses . . . a lot of undercover work to turn us into a bunch of spineless dummies, instead of free citizens.

"It warned how we *could* lose some or all of our Freedoms . . . you know, free speech, press, vote and religion. *And* the right to work or live where we please. This editorial showed how other people abroad have let socialism, then communism, take over and make slaves out of them. And all the time these people thought all they had to do was let Government *'take care of them'*. And it sure did!

"Since then, Ed, I've been reading *all* the editorials and articles . . . in newspapers *and* magazines. Been learning to think, too. And to talk things over with my neighbors and the fellows we work with down at Republic . . . things like government ownership and wasteful spending that can bankrupt a whole nation and all its citizens. Yep, I've been learning to appreciate the Freedoms that *we* have and other people *don't*. And best of all, yesterday I REGISTERED TO VOTE. . . *and my wife did, too!* That's the BIGGEST American Freedom of 'em all, and like a dope I've been too careless to protect my own and my family's interests with a ballot!

"Funny, isn't it? From a cold in the head, I got sense in the head."

REPUBLIC STEEL

Republic Building • Cleveland 1, Ohio

Republic BECAME strong in a strong and free America. Republic can REMAIN strong only in an America that remains strong and free . . . an America whose Agricultural Industry is keeping our country the best fed in the world. *And through Agriculture, Republic serves America.* Steel plays an important role in the successful operation of today's busy farms. Improved steel products will make tomorrow's farming easier and more profitable. Republic, through its never-ending research and development program, is dedicated to better steels for better farming . . . and better food for the American table.

* * *

For a full color reprint of this advertisement, write Dept. C, Republic Steel, Cleveland 1, Ohio

He's feeling his CHEERIOS...

–THE OAT CEREAL THAT NEEDS NO COOKING!

Yes ... a ready-to-eat OAT CEREAL with a whale of a lot of *GO* power!

For a good, hearty breakfast every day, include Cheerios! It's made from oats...and *no cooking needed*. Yes, a truly *different* oat cereal! Crisp, crunchy. Actually shaped like golden, little doughnuts. There's no easier way to serve that wonderful oat energy. And how your folks will go for Cheerios' fresh, toasted oat flavor! No other cereal has a flavor quite like it. Get Cheerios—the *only* famous oat cereal that's ready to eat!

IN REGULAR AND FAMILY SIZE

Before your child starts to school

From page 21

throw, and catch a rubber ball, and turn a somersault.

School will be fun. Let your child look forward to school as a happy new adventure. Many preschoolers are anxious for the time when they can follow their big brothers and sisters and older playmates to school. However, some children are a little afraid of the new experience. If your child is shy with strangers and in unfamiliar places, show him pictures and read stories to him about what children do at school. Let him visit his future classroom once or twice before he starts. Arrange for him to get acquainted with other children who will be in his grade so he won't feel "alone" on the big opening day of school.

Teacher is a friend. Tell him about his teacher, that he must respect what she says and that you will not take sides with him against her. Help him look on her as

a fine new friend—an ally who is going to open all kinds of exciting new worlds to him.

Your child's teacher will be interested in him as an individual and will welcome any information about him which will help her understand his personality. She, too, wants to see your child develop in every way. She wants him to do his very best and will be anxious to work closely with you in solving any problems which may arise. **END**

SUCCESSFUL FARMING

"Did I ever tell you what a scare you gave *me*?"

"To own life insurance is to have success of a most basic sort"

A message suggesting a point of view especially helpful to younger men, by **CHARLES E. WILSON** *President, General Motors Corporation*

"SUCCESS for the individual, I think, comes down to three very personal things. It is accomplishment. It is freedom. And it is satisfaction.

"That being the case, the man who has started a life insurance program has achieved success of a genuine order.

"He has taken the first step along today's straightest road to family security. And *that* is accomplishment.

"He has found new freedom from an economic worry that often holds men back in their undertakings.

"And he enjoys the satisfaction which comes when we put first things first.

"Today, more than 80 million Americans own life insurance. Aside from the advantages this represents to so many, it is reassuring for another reason. It means that in these times when individual initiative is often valued too lightly, 80 million Americans have had the courage and practical good sense to provide for themselves on their own."

★

WHY POLICYHOLDERS ARE SO LOYAL TO NORTHWESTERN MUTUAL...

This company is one of the six largest. It has more than 90 years' experience and an outstanding reputation for low net cost.

This emphasizes that there are significant differences among life insurance companies. It is one reason why each year nearly half the new life insurance issued by this company goes to those already in the Northwestern Mutual "family."

Have you reviewed your life insurance program within the last two years? It would be wise to do so. You'll find real advantages in calling upon the skill and understanding of a Northwestern Mutual agent.

HARSH, OTTAWA

A NORTHWESTERN MUTUAL POLICYHOLDER. *Mr. Wilson's first life insurance was a gift from his father on his 21st birthday, while he was a student apprentice in engineering. Mr. Wilson now owns 8 Northwestern Mutual policies.*

The NORTHWESTERN MUTUAL *Life Insurance Company*

MILWAUKEE, WISCONSIN

Bride shows Mother-in-Law an ironing trick. She just adds **SATINA** to hot water starch.

Heavenly days... that iron "flies on wings!" No sticking, no pulling, no scorching. Clothes smell nicer, too.

Seeing's believing, Mother! Join our "**SPEED-IRONER'S**" club. When you buy starch, buy **SATINA**, too!

- Clothes Stay Cleaner; Look Newer
- Costs Less Than 2¢ a Starching
- Easy Directions Inside Package

A Product of General Foods

YOURS—ONLY 10¢

10 Gleaming Plastic Clothespins in assorted colors—red, white, blue, yellow. Can't rust or splinter . . . **PLUS** a full size package of SATINA . . . all at special bargain price, to win new friends.

SATINA, Dept. S, Box 899, New York 46, N. Y.
I am not as yet a SATINA user. Enclosed find 10¢ for introductory SATINA-Clothespin Offer.

NAME_____

STREET_____

CITY_____ STATE_____

Offer Expires Dec. 31, 1952

All around the house

Here are tips to help you save some time, space, steps, work

● I have found that some ordinary kitchen tools sometimes do things they were never intended to do. A potato-ball cutter is fine for scooping olives and cherries from narrow-necked bottles. And a nutcracker can be used to crack ice cubes for cold drinks.—*Mrs. R. M., Michigan.*

● A handy emergency staple for holding papers together can be made by drawing a short piece of wire or hairpin through the holes of a flat button. I punch holes through the paper and push both ends of the wire through them, bending the wire against the back side of the papers.—*Miss G. S., Missouri.*

● A cottage-cheese box makes a good container for my young son's clay. I find that he no longer has trouble with the clay's sticking to the box. Similar cartons can be used for crayons and marbles.—*Mrs. D. T., Illinois.*

● Attractive dustcloths can be made from scraps of material or discarded garments. I lay my hand flat on the piece of material and trace around it mitten fashion, allowing for a $\frac{3}{8}$-inch seam. After cutting out the mitten, I topstitch it to the middle of 1 square yard of cheesecloth, leaving the wrist end of the mitten open. When ready to dust, I slip my hand into the mitten. Children love to dust with a bright dusting mitt. The mitts make clever gifts.—*Mrs. R. C., Oklahoma.*

● I use a percolator basket to strain grease drippings. The basket fits the top of a jar perfectly and doesn't interfere with placing the lid on the jar.—*Mrs. J. H., Tennessee.*

● My family tired of the same powdered-sugar frosting which I used on spice cake. Then I discovered that I could add a can of baby food to the sugar and a delightful new flavor resulted. I use applesauce or apricots most frequently.—*Mrs. L. G., South Dakota.*

● When it is necessary to put two card tables together to form one longer table, I use large rubber bands to hold the table legs in place. The card tables cannot be jostled apart and, if the same height, can be treated as one table.—*Miss R. J., Minnesota.*

● When making my own house dresses which button to the hem, I put buttonholes down both sides of the dress. I then sew buttons, properly spaced, to a removable tape. This way the buttons serve several of my dresses and no buttons are lost in the washing.—*Mrs. H. L., Minnesota.*

● I save all post cards for use in my recipe box. When I cut recipes from magazines or newspapers, I paste them on the cards and file them in the box.—*Mrs. R. A., Kansas.*

● I paste an empty envelope face down on the top of my stationery box. The unsealed envelope makes an excellent place to keep postage stamps.—*Miss B. C., Nebraska.*

● Chunks of ice can be frozen easily in a paper milk carton. The chunks do not melt as rapidly as ice cubes and can be used at picnics. I dispose of the carton when the ice is used.—*Mrs. R. T., Indiana.*

● I use an old safety razor, minus the blade, to clean the brush on my carpet sweeper. The teeth of the razor catch lint and strings from the brush.—*Mrs. R. P., Kentucky.*

● A saucepan cover without a knob needn't be discarded. I make new knobs by pushing a sharp, pointed screw up

through the hole and twisting a cork onto the point. Varying sizes of corks may be used, depending upon the size of the cover.—*Mrs. M. W., Iowa.*

● I run the electric fan periodically in my clothes closets that have no other way of being aired. Mustiness and dampness are greatly reduced.—*Mrs. O. N., Oregon.*

● Grated cheese added to mayonnaise gives a delicious flavor to salads made with peaches, pears, or apples.—*Mrs. O. G., South Dakota.*

● I use a paper plate in the bottom of my garbage can. This helps prevent rusting, as the plate soaks up excess moisture and can be easily replaced.—*Mrs. J. C., Illinois.*

6 simple summertime meals

FEATURING STAR-KIST TUNA

There's a wonderful new collection of Star-Kist Tuna recipes waiting for you at your grocer's ... NOW! Try them! Discover how very easy and economical it is to prepare hearty, nourishing meals ... meals rich in protein, vitamins and minerals ... when you use Star-Kist Tuna ... "America's Best in Flavor Tests!"

16¢ a serving
Star-Kist Tuna Crunch Salad

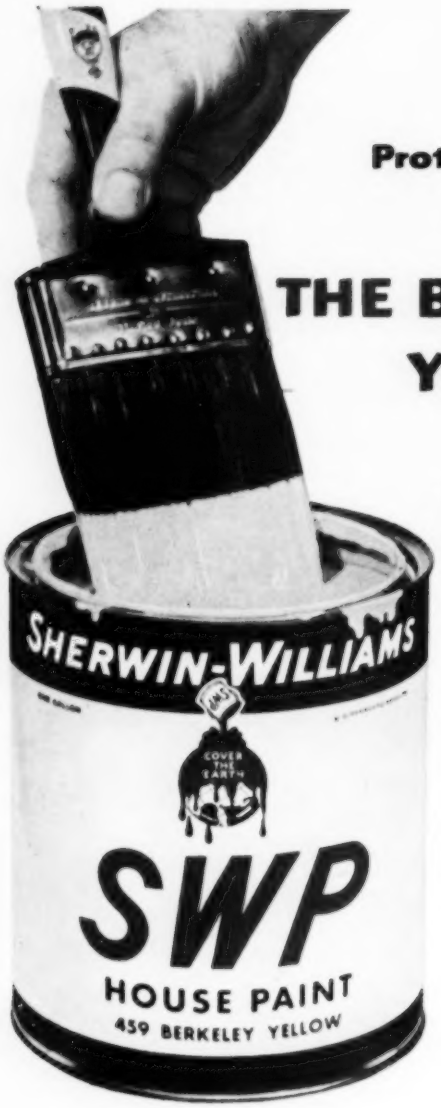
1 No. ½ can Star-Kist Tuna
4½ tbsps. chopped sweet or dill pickle
1½ tbsps. minced onion
1 cup mayonnaise
1½ tbsps. lemon juice
1½ cups crisp shredded cabbage
1 small bag potato chips, coarsely crushed
Lettuce — Tomato wedges

Combine tuna, pickle, onion, mayonnaise and lemon juice; chill in covered dish. When ready to serve, add cabbage and toss together. Add part of crushed potato chips; toss. Heap in shallow lettuce-lined salad bowl, sprinkle rest of potato chips on top, and garnish with tomato wedges. Serves six.

Free at Your Grocers! New Star-Kist Tuna Recipes for SIMPLE SUMMERTIME MEALS
Cool Salads! Hot Dishes!

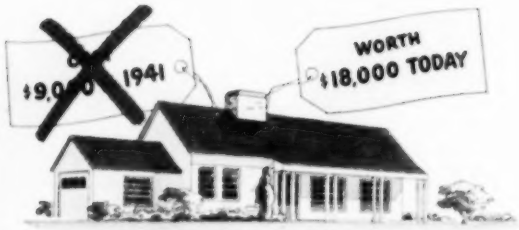
You'll find these easy economical recipes at your grocer's display of Star-Kist Tuna. Or, write to: Star-Kist Tuna, Terminal Island, California. Department SF-20.

FIRST... America's Best in Flavor Tests!



Protect the Increased Value of Your Home with

THE BEST HOUSE PAINT YOU CAN BUY!



This sketch illustrates the greatly increased value of many residential properties in the last few years.

Don't gamble with ordinary house paint when the best costs so little. Protect the increased value of your home with the best house paint you can buy.

Many house paints cost less than famous SWP. But no house paint offers so much real quality at so little cost. That's because SWP House Paint is Weath*erated* . . . rated by the toughest of testing procedures to withstand the worst that weather and wear can offer. Tested toughness is built into SWP for lasting beauty and protection. And enough SWP for the average six-room house costs less than $45.00!

Now is the time to paint your house with SWP. Look for the familiar "Cover-the-Earth" sign . . . the sign of a friendly Sherwin-Williams dealer who will recommend a reliable painting contractor, if you wish. He can help you with *interior* decoration, too. Ask for your free copy of the Home Decorator or ask to see the Paint and Color Style Guide.

IT'S WEATHERATED

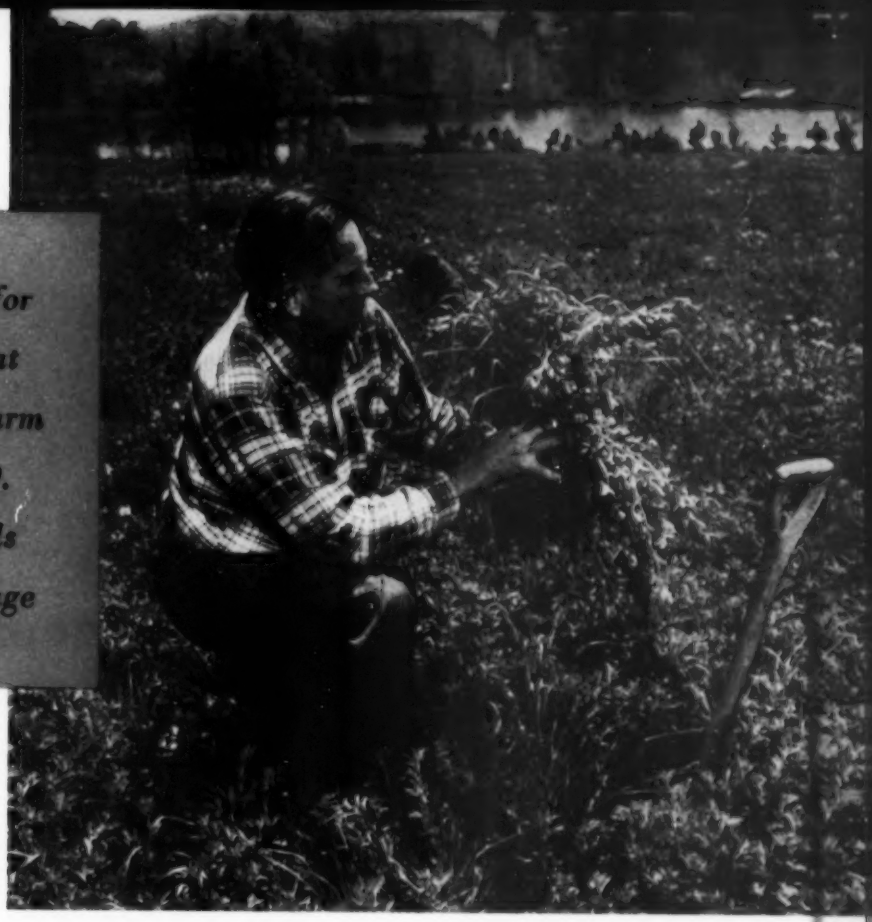
SWP House Paint is tested rigorously for its ability to resist chalking, checking, cracking, fading and dirt collection.

NOW is the time to paint your house with

SHERWIN-WILLIAMS PAINT

© 1955, The Sherwin-Williams Co., Cleveland, Ohio

SHERWIN-WILLIAMS LEADS THE WORLD IN PAINT RESEARCH



Come see for yourself at Malabar Farm August 9. For details turn the page

How I get organic matter—quick!

By Louis Bromfield

I have heard a great truth uttered many times—that it takes Nature 10,000 years to build an inch of topsoil. But I have rarely heard it said that *man could build 10 inches of topsoil in 10 years* (and profit while doing it) by the *same* process which Nature employs!

It took Nature a long time to build an inch of topsoil, because she followed, of necessity, the painfully slow process of laying down one leaf or one blade of grass at a time. The good farmer has a huge variety of heavy legumes and grasses—which may be used as cover crops, green manure, and profitable heavy pasture, and turned into the subsoil. Topsoil is nothing more than subsoil thoroughly mixed with decayed and decaying organic material, plus the benevolent acids, the bacteria, and the spongelike moisture-holding qualities of humus. All these make for quickly available fertility, high yields, healthy plants, animals, and people.

If the subsoil contains a good balance of minerals, the topsoil, built by man, will be one of the richest and most productive on earth. If the mineral balance isn't all it should be, we now have means of testing the soil, discovering deficiencies, and correcting them. [*Turn to next page*

⬅ At Malabar Farm, this 5-point plan has

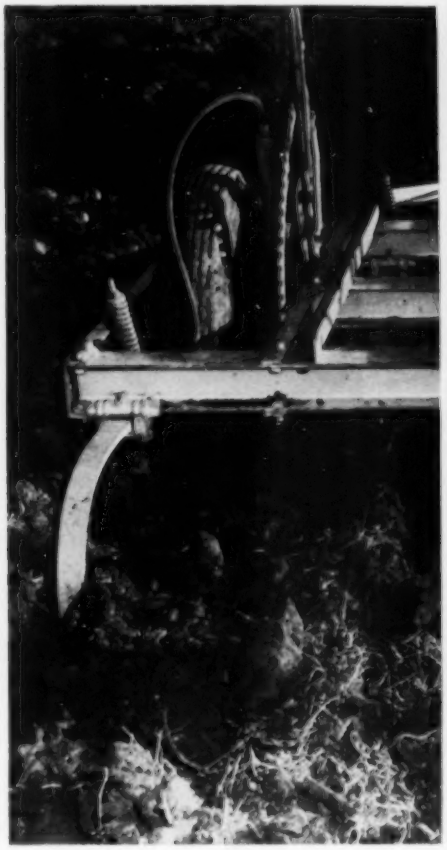
1. Easy-to-build drainage basins (above) and brush removal, where necessary, make way for renovation

2. Lime is spread before the soil is ripped up. In many fields, ditches had to be plowed in to make way for the limestone trucks

3. In fall, rotary tiller uproots and incorporates into soil all aboveground vegetation—it also stirs in the lime

4. An offset disc freshens the surface and kills the newly germinating weeds in the spring. Then the field is ready to be seeded

◀ **5.** Legume-grass mixture is seeded with 400 pounds of 3-12-12 per acre. No nurse crop is sowed. The weeds are clipped twice



Multiple-chisel plow is the key Malabar tool ▶ for incorporating the fertilizer and heavy growth of legumes and grass deeply into soil

Organic matter—quick *continued*

Man also has invented tractors and a wide variety of machinery and tillage tools which permit him to incorporate organic material into the soil. When all these factors are added together, two things become apparent: (1) Man can build good, deep topsoil immeasurably faster than Nature; (2) he can make good topsoil out of almost any basic material. The only limitation is the one of cost.

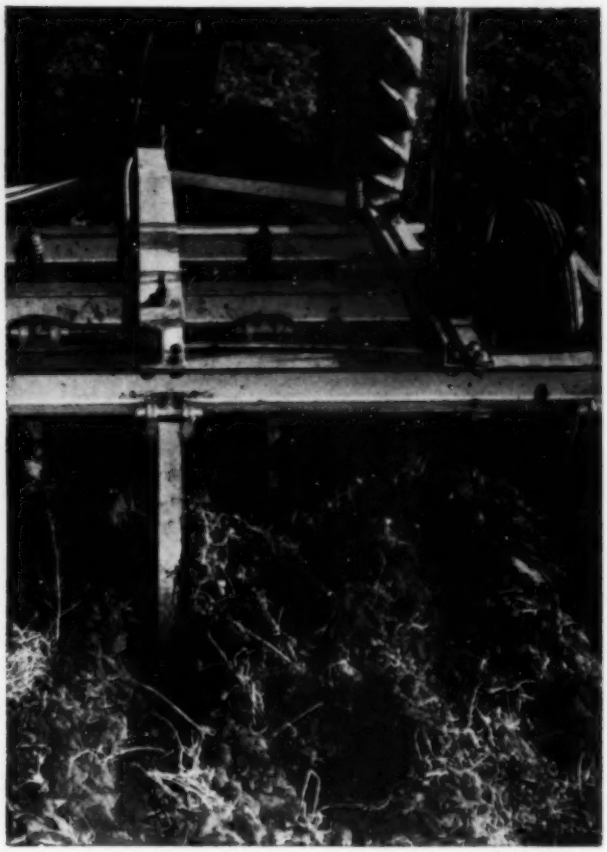
The original land at Malabar Farm was partly abandoned. The part of it that was being farmed was declining in production each year, while the gullies grew deeper and deeper. We were told that the land, especially the hilly parts, was fit only for reforestation or Christmas trees. We didn't believe it—so we decided to find out how to do the restoration job just as quickly and economically as possible.

Our main practice ground was our biggest hill. For 40 years it had been known as Poverty Nob. It was steep; its sides were deeply gullied. It had been corned out, farmed out, pastured out, sheeped out, and abandoned about the time I was born. Since that time it provided weed pasture for a handful of cows for about 10 days each spring.

We began experimenting on the lower slopes of Poverty Nob, seeding in a nurse crop. We limed the field, plowed in the gullies with a moldboard plow, fertilized, fitted the harsh soil carefully, and seeded it down to alfalfa, bromegrass, and Ladino clover with a nurse crop of 3 bushels of oats to an acre.

The result was disaster. The smoothly fitted field washed badly with the first rain, carrying away much of the grass-legume seeding. Later in the summer, when dry weather came, the cementlike soil (devoid of all organic material) held no moisture at all. The few seedlings that survived the washing rains were burned out. The nurse crop of oats could not profit by the fertilizer and grew only 6 to 8 inches high.

built soil like this ↓ *and given these returns* ↓



Photographs: Munroe

Pasture — *from* 1 cow on 10 acres for 2 weeks in the spring, *to* a head to 2 acres for the whole summer — this happened in a little over a year's time on the most worn-out Malabar soil

Grass silage and hay, too, are by-products of the soil building up process. Above, grass silage is loaded from the trench silo built alongside the barn. Note the lean-to roof sheltering silo

Manure disposal has almost become a problem, since little corn is grown. This year, a trial with corn planted in slits through Ladino may point the way to a heavy use of manure

Very clearly, this was not the way to get a seeding and build topsoil. (Incidentally—5 years later we took a yield of 75 bushels of good, solid oats off the same field.)

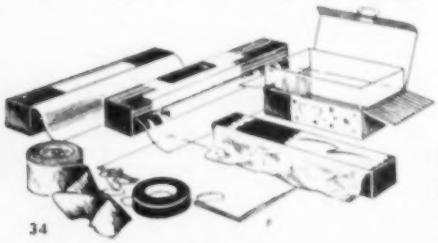
That autumn, merely to get some kind of cover for the winter, we sowed the field to Balbo [*Turn to page 60*

August 9—come see for yourself!

Louis Bromfield will personally describe the methods used to bring the fields of Malabar to lush productiveness. Sponsored by Mr. Bromfield and the editors of *Successful Farming*, the event will get under way at 1:30 p.m. (*Eastern Standard Time*). Bring a picnic lunch if you come early. At Malabar Farm you'll see an actual renovation demonstration using the methods described in this article, and there will also be tours of the farm. A soils specialist from Ohio State University will also be on hand. To get there, go to Lucas, Ohio, where signs will direct you to Malabar Farm. We'll see you on August 9!

Planned-overs — or intentional leftovers — are smart and thrifty. Special glass freezer jars are convenient for cooled homemade soup. Baked beans, baking dish and all, can be slipped into plastic bag fastened with a rubber band. Metal container at the left is fine for cooked meat with gravy

Baked foods keep fresh for months if wrapped in materials that keep moisture in. Flat box with cellophane or plastic bag protects frosted cupcakes. Cookies cut to fit a freezer carton make a compact package. For pies, use drugstore fold, tape-sealed. Stockinet protects the cellophane



Wrap it right!

Choosing good packaging—and using it well—is your best assurance that foods from your freezer or locker will stay tender and tasty

By Maurine Harris

Foods attired for the freezer nowadays are a far cry from those of a few years back. It's past—the era of the "cold-storage room" with its open barrels of unwrapped chunks of meat.

It wasn't so long ago that a mysterious ailment called "freezer burn" was common to most frozen foods. Its symptoms were whiteness on the surface of the food and toughness that defied the sharpest set of molars.

Today "freezer burn" is recognized as nothing more than plain *drying*. Preventing it is simply a matter of wrapping the foods in special materials and sealing them well so the moisture can't get out. Not difficult. Not mysterious. Just logical.

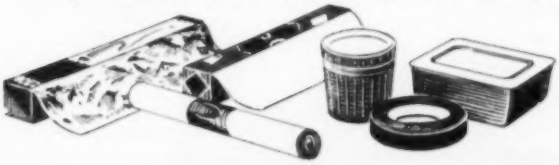
Take your choice of the better-quality frozen-food wrappings to be found at your grocery market, department store, appliance dealer's, or locker plant. It makes little difference which ones you use for which food. The important thing is that the materials are really capable of preventing loss of moisture from your foods.

Here we show examples of the types of supplies available. Your own preference determines the ones most convenient for you. Among the rolls of wrapping materials are: heavy waxed papers, heavy papers coated with a layer of glassine or cellophane, aluminum foil, and moisture-proof cellophane. These materials come in various lengths and most are in cutter boxes, so it's easy to tear off sheets in the size needed.

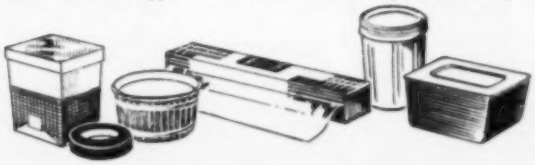
The containers shown all are designed especially for food freezing. The cardboard containers have heavy coatings of wax or plastic. The folding cartons have separate bags (liners) of plastic or cellophane. [*Turn to page 66*

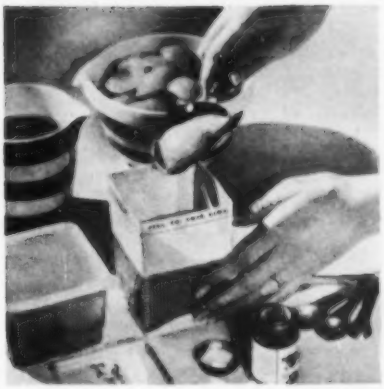
Photographs show convenient packaging for certain foods. Equally suitable materials for each use are in drawings

Meat is your biggest freezer investment; don't allow looting by "freezer burn." Wrap tightly in best-quality material. Double thickness of paper between the steaks keeps them from freezing together. Wrap the cuts with drugstore fold; freeze ground meat in square blocks, skillet-ready balls, or bun-size patties

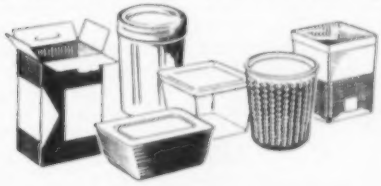


Cream and eggs in a freezer? You bet! And butter, too! But tight packaging is a *must*. Wrap the butter in freezer foil or paper. Stir a little sugar or salt into the eggs; strain, and freeze in small blocks or in larger containers. Sweetened, flavored whipped cream can be frozen in spoonfuls, then packaged



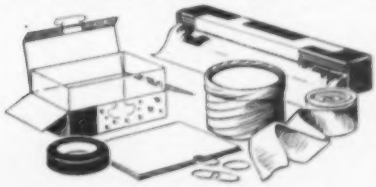


Fruits can come out of the freezer as sprightly in color and flavor as fresh-picked ones if you choose both fruit and container carefully. Special vitamin-C products keep apricots and peaches from darkening



Photographs: Stanley, Drawings: Rocco

Poultry — including prized wild ducks, pheasants — needs to be tightly sealed or its tenderness will take flight! Whole roaster, split broiler, cut-up fryer, giblets — each poultry product is wrapped a special way

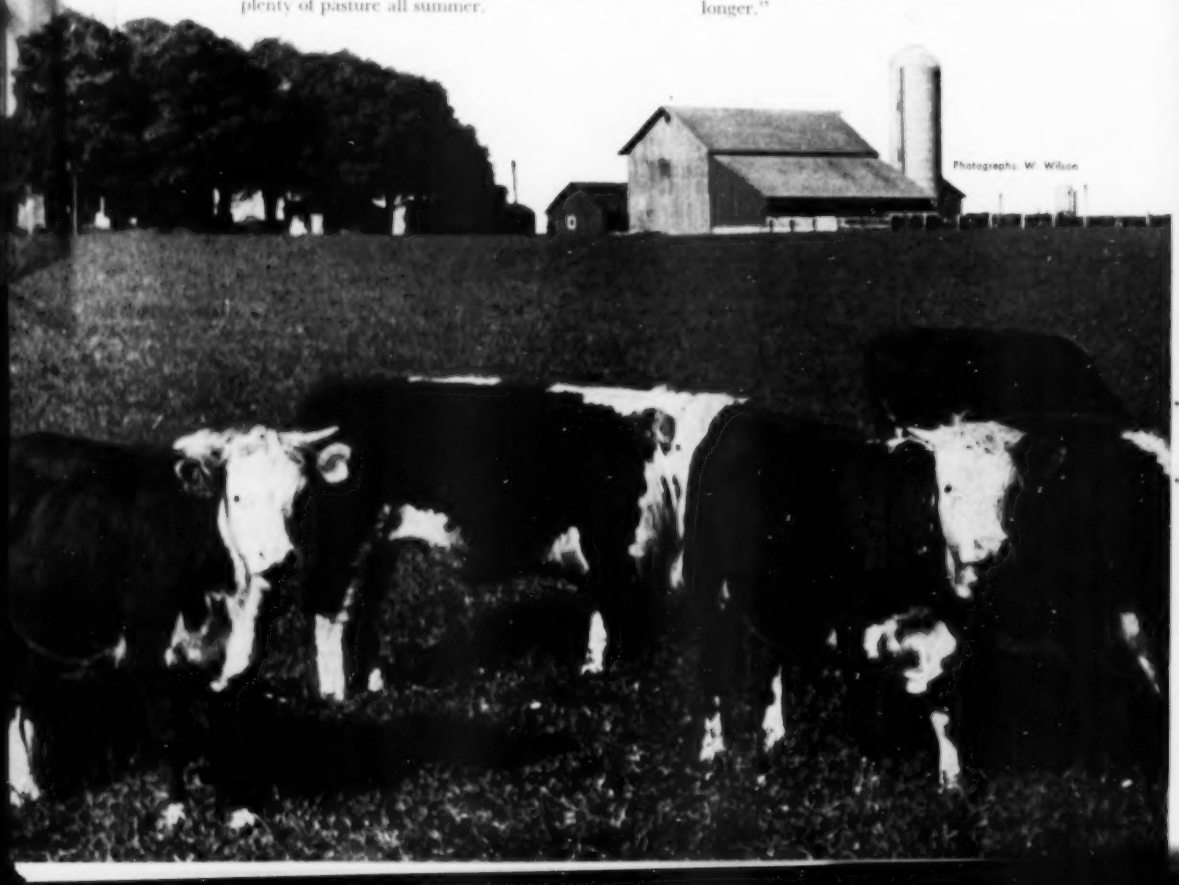


How we get summer pasture

Much fun has been made of permanent pastures as they usually appear in August—"cow gymnasiums" inhabited by animals which need "lawn mowers for mouths," and so forth. Without a doubt, shortage of pasture during July, August, and September accounts for smaller milk checks and reduced gains of beef and lambs on a lot of farms. In order to hold up milk production or weight gains, expensive and time-consuming extra feeding must be resorted to. There are numerous ways to get by this summer pasture slump. Following are some of the best methods we've heard of for providing plenty of pasture all summer.

"Our improved pastures work fine for us."

Harley and Kenneth Bastian, De Kalb County, Illinois, where the photograph below was taken, are feeding 94 steers on a 20-acre pasture of alfalfa-Ladino-timothy with 5 acres of brome-alfalfa-timothy standing by. Harley Bastian says, "We are going to brome—it comes in hot weather and holds in mixtures longer."



Photographs: W. Wilson

"Well-fertilized alfalfa, brome, Ladino."

Harold Peck, of Calhoun County, Michigan, a dairyman, applies 400 pounds of 0-20-20 when he seeds pasture for his 40 head of cows and young animals. He says that 35-40 acres of good legume-grass gives him more milk in the pail than anything else he has tried. He top-dresses with another 200 pounds of 0-20-20 the second year in pasture. He also has some low ground in reed canary grass.

"Forty acres pastures 150 sheep and cattle."

Glenn Shanor of Bureau County, Illinois, is using the same scheme this summer as last, when he topped the market with two bunches of grass-fed lambs—not an ounce of grain went into them. He kept the 77 lambs, 53 ewes, and 20 head of dairy cows and calves on 40 acres of alfalfa, brome, and Ladino. And he cut some hay off it besides. The pasture stood up well during July and August, always furnishing enough feed. The first part of July, he clipped it once to control the weeds. This summer he is using the same system with a few more lambs and ewes.

"Ten acres of Sudan is ready around July 15."

Evan Brown, who farms with his father in Polk County, Iowa, outlines the pasture setup for their 16-cow dairy herd: "Thirty-two acres of alfalfa-brome is split into four fields and rotated as needed. We also make hay from these fields. We sow 10 acres of Sudan around the first of June, using about 30 pounds of seed per acre. This is fertilized with 200 pounds of 0-20-0 and makes top pasture after the middle of July. We keep our hogs on alfalfa-brome which yields ample pasture all summer."

"Manure—vitamin pill for pasture."

Lloyd Leatherbury, Carroll County, Ohio, dairyman, used to rent summer pasture before he started a 6-year rotation, including 4 years of well-fertilized hay pasture. He seeds it by discing for a trash-mulch seeding after small grain is removed. He band-seeds with starter, 7 pounds of alfalfa, 1 pound Ladino, 3 pounds red clover, and 7 to 10 pounds of brome per acre. Second- and fourth-year pasture is heavily top-dressed with barnyard manure and 300 pounds of 0-20-20.

"—both rotation and permanent."

Homer C. Bohl, Highland County, Ohio, gives credit for his 500-pound dairy-herd average to improved pastures. He starts the season on 17 acres of permanent pasture, seeded in 1942 to orchard grass, bluegrass, and white clover. It receives superphosphate each fall. The 17 acres is split into four fields, and the cattle can't keep ahead of it. Regular clipping prevents the orchard grass from clumping and shooting heads. During the hot months, adjoining alfalfa-Ladino-brome meadows are thrown open and the cows allowed to graze free-choice.

More on page 61

This house can be built to

Fit your family

Designed to fit the size of your family now, or grow with you in the future, this Modern house is sure to fill your needs

By Hans Dickinson and Joan B. Scovel

How many in your family—two, four, or five? If you're going to build a new home, how much room do you need—now and in the future?

There are many farm families who *want* a new home, but don't feel they can afford to build one of the size they know they'll need in the years to come. The house—No. S2208—shown on these pages was designed for just such families. It can grow with you, or it can be built in any one of three sizes without future expansion in mind.

The butterfly roof design gives this house the Modern look that interests most farm families these days. And this type of roof is practical, too, as it requires only one drain gutter—down the center—instead of gutters on both sides of the house.

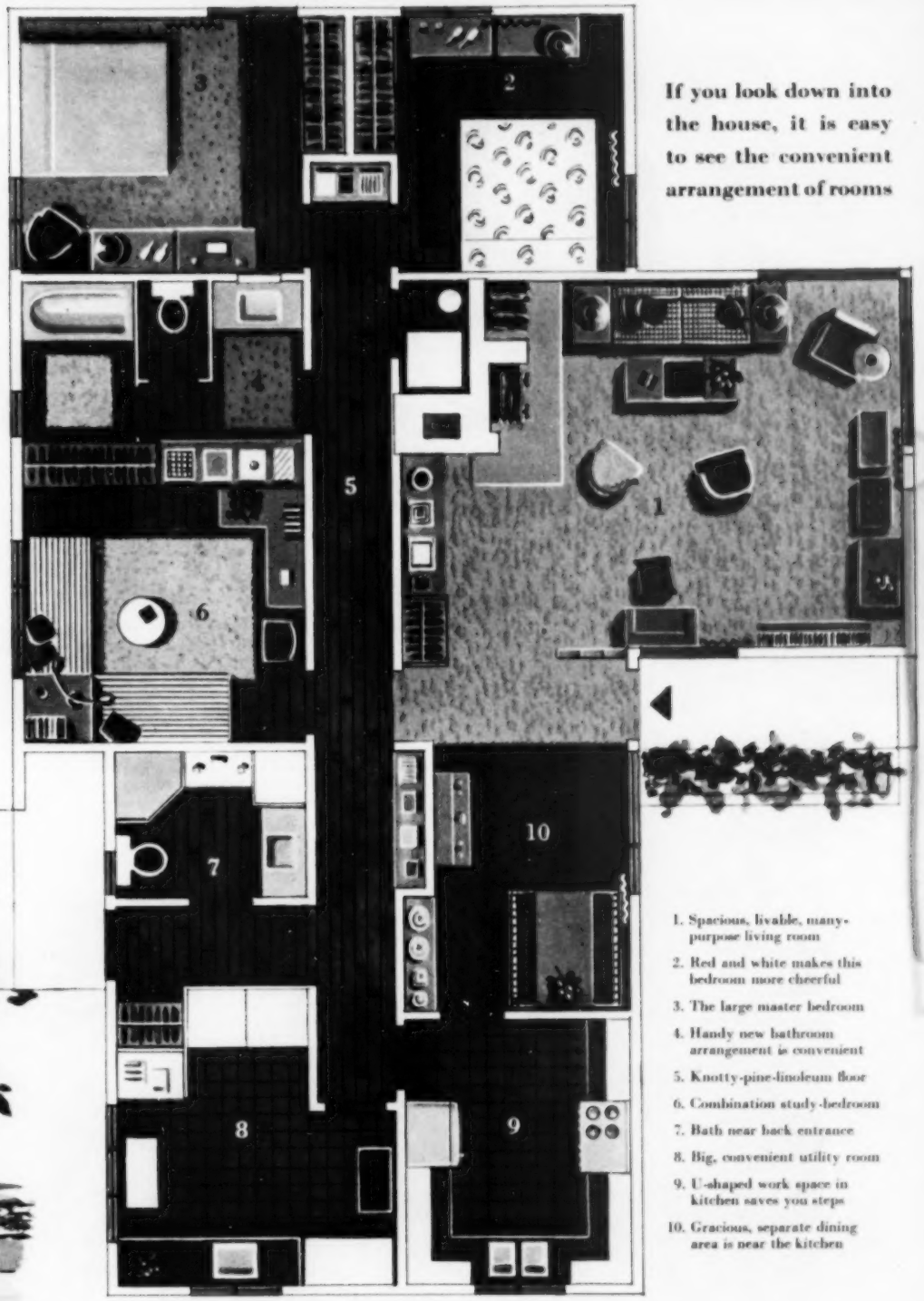
You'll find the *Successful Farming* Big Three included in each stage of this house plan. There are an enormous workroom, a central hallway, and entrance on the drive—the three features we feel every farm home should have.

Now about the three different stages of this plan. There are 568 square feet of floor space in the first stage of the plan. That's small, but every inch is usable space. This stage of the house would be ideally suited for a second house on the farm. Within that 568 square feet, there are one bedroom, a workroom, kitchen, dining area, living area, and bath.

If you build the first stage of the plan and later decide you want more space, you can have it by simply following the plan for the second stage of this house. Two more bedrooms and a larger living room can be added to one end of the house—as shown on the floor plan. Floor plans for all three stages are shown on page 54.

In the completed second stage, there are 1,347 square feet of floor space. This second stage gives you a larger workroom, separate dining area, fireplace, plus two bedrooms.

[*Turn to page 41*



If you look down into the house, it is easy to see the convenient arrangement of rooms

1. Spacious, livable, many-purpose living room
2. Red and white makes this bedroom more cheerful
3. The large master bedroom
4. Handy new bathroom arrangement is convenient
5. Knotty-pine-linoleum floor
6. Combination study-bedroom
7. Bath near back entrance
8. Big, convenient utility room
9. U-shaped work space in kitchen saves you steps
10. Gracious, separate dining area is near the kitchen

◀ The front view of the house shows the entrance on the driveway. This drawing shows the house in the three-bedroom, or final, stage of the plan. The house can also be built in two smaller sizes. See article, floor plans on page 54 for explanation of the other stages of plan

More on next page

▲ Early American pieces in the living room include the dough-box end tables, sofa, Windsor chair which blend with Modern lamps and chair. Black-and-white upholstery fabrics are new color idea and won't show dirt or dust

TV corner features an interesting picture arrangement over a cabinet made of blonde wood and bamboo panels. The hanging lamp, the low padded bench, chests and bookshelves suspended on the wall are Modern treatment ▼

Built to fit your family

Continued

Then, if you want still more room, a third stage of expansion is provided for in the plans. By again adding onto the end of the house, you can have three bedrooms plus another bathroom. This final phase of the plan gives you 1,659 square feet of floor space. This would be the stage of the house to build *now*, if you have several children.

Although adding to a home is never as economical as building it large enough in the first place, there are times when later additions are necessary. In this plan, the costs of additions are kept to a minimum by using many of the materials over again in the new rooms.

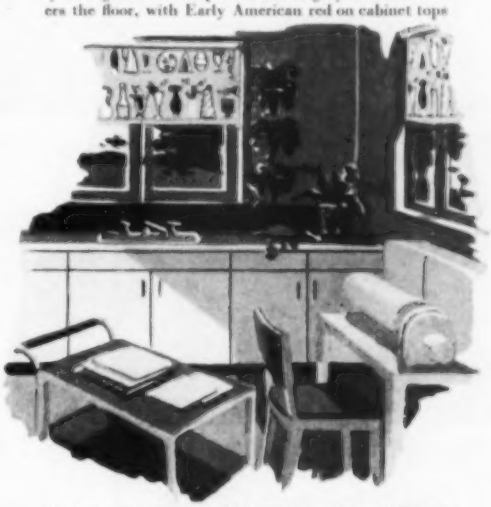
The drawings of the interior of this house are shown here to offer you color suggestions for each room. They also show possible furniture arrangements—all designed to give you the maximum use of every room. The living room, for example, has three distinct living areas—in one end are the television set, comfortable viewing chairs, and the family library hung on shelves on the wall. Around the fireplace in the other end are grouped the sofa, easy chairs, and a coffee table. On the wall opposite the sofa and handy to the bookshelves are a desk and chair. Thus, through the arrangement of the furniture, this one room serves three different functions.

Although this house is basically Modern in design, its straight, simple lines make it suitable for either Modern or Traditional furnishings. There has been a renewed interest in Early American furniture styles in the past two years. The soft mellow color of the wood and casual informality of the designs appeal to everyone.

Because so much Modern furniture is directly descended from Early American styles, we combined the two periods in this house, giving it a true all-American atmosphere. The light wood tones in all of the pieces and the co-ordinated color schemes throughout the house also blend the two periods together. Citron yellow, turquoise, Early American red, and black and white are used in varying amounts in every room of this Modern house.

Inlaid linoleum, in a knotty-pine [*Turn to page 54*

The kitchen, though small, is compactly and conveniently arranged in a U-shape. Black-and-gray linoleum covers the floor, with Early American red on cabinet tops



Utility room contains all laundry equipment, freezer, lots of storage space. Sink and counter tops make a place for preparation of foods for freezing, flower arranging. Same color scheme was carried through from the kitchen

The rear view of the house shows the location of the back door. Outside storage for garden tools is located in the enclosed closet next to the back door. Workroom and bathroom are just inside the back door

Alternate floor plans for this house on page 54

How important is

continuous weight gain in cattle?

Scant-feed periods may not be as serious as you think. Cattle can slide through with right supplements, gain well on full feed later

By C. F. Winchester
United States Department of Agriculture

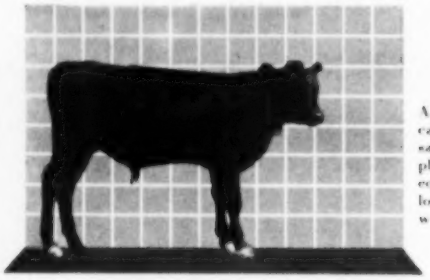
Our feeding tests with twin calves are encouraging for the farmer who feeds cattle but runs into periods of short or too-high-priced feed. Our tests indicate that cattle can get along on a reduced energy-feed intake if they receive adequate protein, minerals, and vitamins in the ration. And, after good energy feed is again made available to cattle with an interrupted growth period, they will make economical gains without a loss in meat quality.

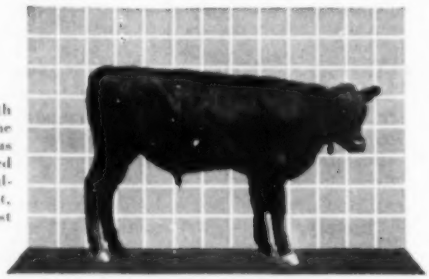
But our tests are not final proof. We still have much to learn about this continuous-weight-gain business, as well as many other feeding problems.

One of the many unanswered feeding problems has always been the question of [*Turn to page 73*

Comparison of identical-twin beef animals by age and weight

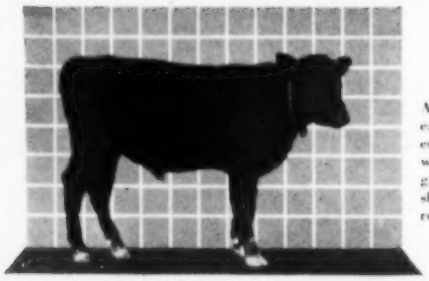
No. 1 **No. 2**

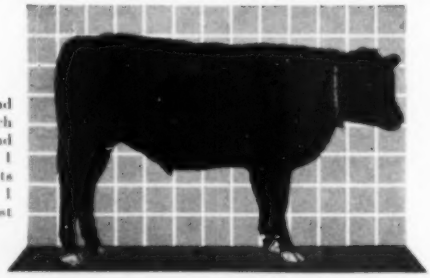




6 months

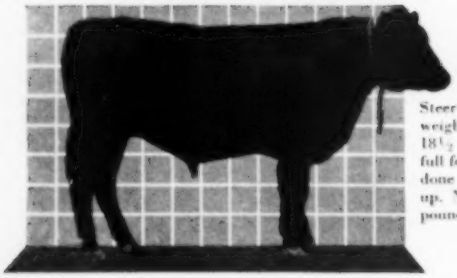
At 6 months of age, both calves weighed about the same. No. 1, at the left, was placed on a maintenance feed equal to half of a normal allowance. Steer No. 2, at right, was fed full ration for test

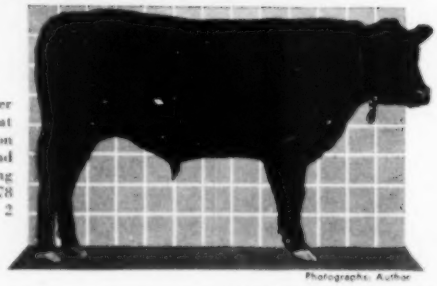




12 months

At 1 year of age, No. 2 had eaten $2\frac{1}{2}$ times as much energy feed as No. 1, and weighed 618 pounds. No. 1 gained no weight, but its skeleton grew slightly. No. 1 remained healthy during test





$18\frac{1}{2}$ months

Steer No. 2 reached slaughter weight of 1,000 pounds at $18\frac{1}{2}$ months. No. 1, put on full feed at 1 year of age, had done a good job of catching up. No. 1 weighed only 178 pounds less than Steer No. 2

Photographs: Author

Judge the boar you buy against the points and the picture below

Front end

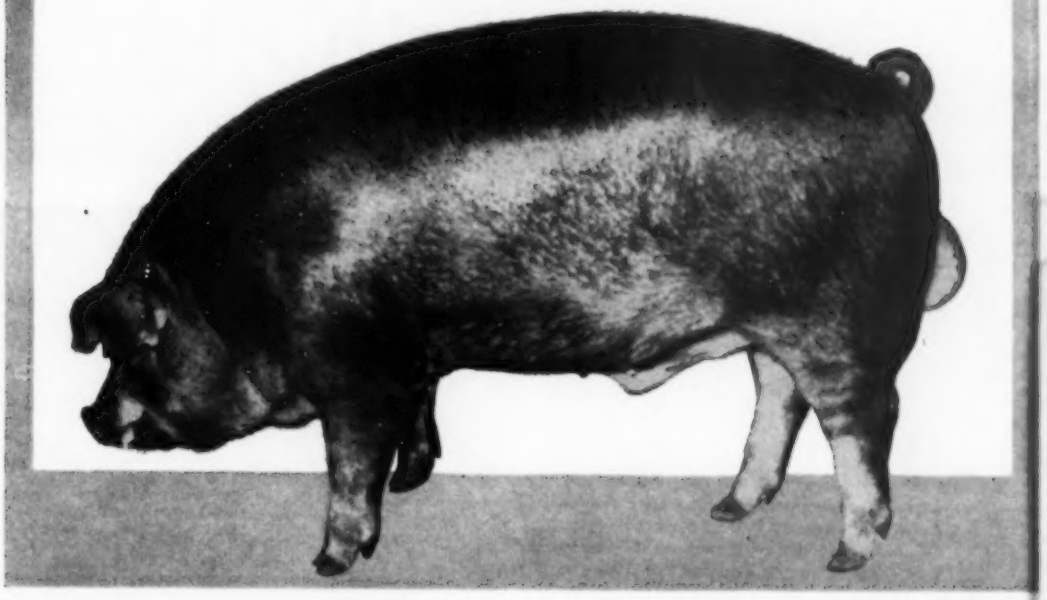
Make sure the boar you buy shows ruggedness about head and face. Many hog breeders believe prepotency, or ability to reproduce, is shown by this feature. The boar's eyes should be large and set well apart, front legs straight

Middle part

The boar you buy should have good width, plenty of length and depth, and a good balance of body. Don't buy a boar that is coarse through the shoulders. Bones should be strong but not heavy. Select a boar firm and hard in flesh

Rear end

Again, make sure the boar you buy has good feet and legs. Large, well-developed testicles indicate boar strength and masculinity. Boars with inverted rudimentary teats will pass this inherited teat condition on to the gilts they sire



How to buy a boar

If you were disappointed with last year's pig crop, don't put all the blame on the gilts or your management. A poor boar may have been the cause. Here's how to pick the right boar for your gilts

By E. L. Quaife

When you plunk down the cash for this year's boar, you're putting at least half the responsibility for a moneymaking pig crop on the line. The boar is at *least* half your herd. Big, healthy litters don't come from poor boars and sows.

Very often, the importance of the boar is overlooked. This is a mistake. Faulty boar selection is one of the biggest reasons why many farmers are disappointed in their crop of pigs.

Too often, boars are "picked up," more with the idea of just getting the sows bred. Sometimes, little consideration is given to the boar's value as a sire.

Selecting boars which will do the best job for you is not always easy. There are several factors you should keep in mind when buying this year's boar. Here are some of the most important:

1. The inheritance or the breeding background of the boar should be considered. Some producers sell production-tested boars. These boars have a good record of gaining ability and prolificacy in the herd from which they came.

It is always sound practice to pick a boar from a good-sized litter that survived through weaning. The litter mates of the boar should also be considered. Often, a certain boar pig may be the only good pig in the litter. There is a better chance [*Turn to page 90*

Why some eggs are worth more

Egg quality is the answer. Iowa study tells why it pays to produce quality eggs—drawings show how to get them

By Vernon Schneider

Hens don't lay dirty eggs. Neither do they lay stale eggs. When eggs are laid, they're clean and fresh. What happens to them after they're laid makes the difference in their market price.

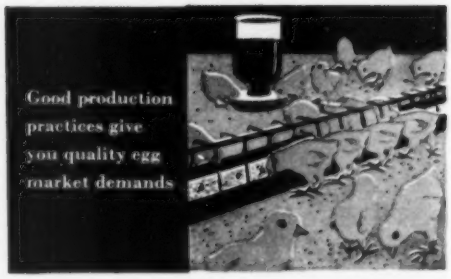
Clean, fresh eggs are in demand. Egg buyers not only demand quality eggs but are willing to pay premium prices. A quality product benefits the producer, the egg buyer, and the consumer.

Egg deterioration starts on the farm. Buyers of quality eggs are set up to maintain the quality of the egg once it is in their hands. It's up to the producer to maintain quality until the eggs are delivered to the buyer.

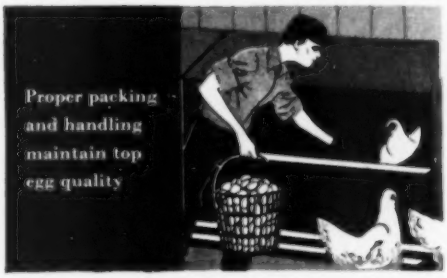
Producing quality eggs starts long before the pullet lays her first egg. Good foundation stock from a reputable hatchery helps assure quality eggs demanded by consumers. Such factors as egg size, egg shape, shell texture, shell color, the amount of thick white, and blood and meat spots are heritable and vary considerably among individuals, families, and strains. Future breeding programs can do a lot to increase the number of top-quality eggs produced.

Early-started chicks can boost the income per hen over a year's laying season. Pullets which begin to lay in July will be in top production during fall peak-price months. Buy replacements between January 15 and March 15—house at $4\frac{1}{2}$ to 5 months. Early-housed birds come into top production faster. Don't mix old birds and pullets. Housing them apart is one of the best ways of keeping disease out of the pullet flock.

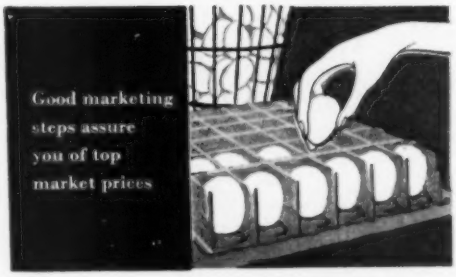
If you're selling hatching eggs, get rid of the roosters after the hatching season. Not only do they eat a lot of feed, but it is more difficult to maintain the quality of fertile eggs. [*Turn to page 94*



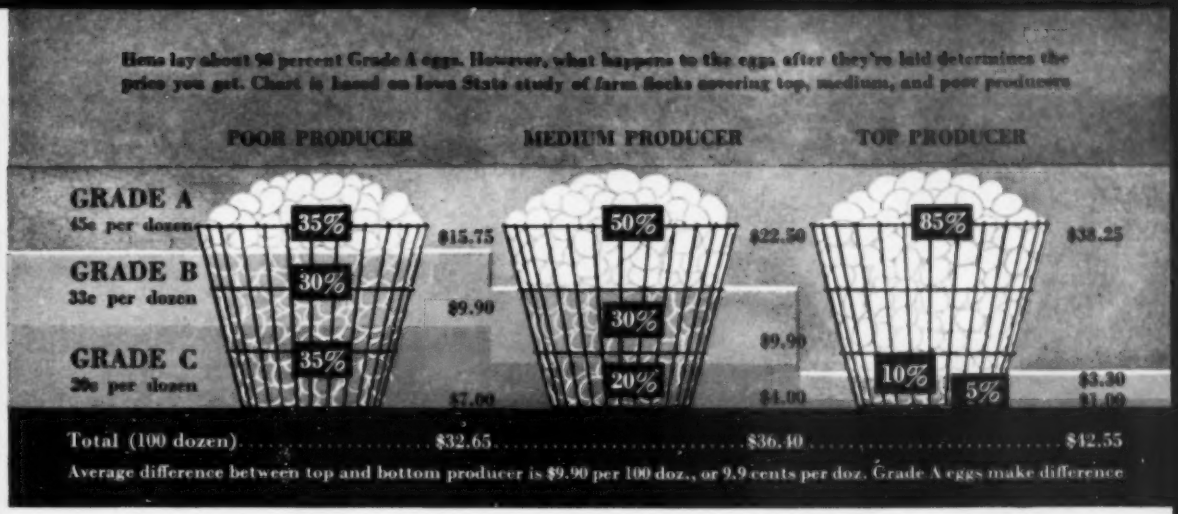
Buy quality chicks from a reputable hatchery—start them early. Many egg factors are inherited



Gather eggs three times daily in wire basket, oftener in summer. Eggs left in nest lose freshness



Case eggs with big end up, leaving air cell on top of egg where it is less likely to break loose



Drawings: Hiser

Provide 1 nest for each 5 birds to reduce traffic over eggs. Confine flock to keep the hens out of mud

Keep hens out of manure by enclosing droppings pit. Put waterers over wire platform to avoid any wet spots

Feed layers balanced ration—include vitamin D, calcium for strong shells. Confine hens for uniform yolk color

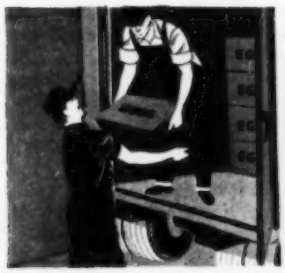
Build a deep litter for dried house. Provide ventilation to remove moisture and stale air

Cool eggs quickly in wire basket. Use fan to speed cooling. Hold in coolest place—in a cellar or cave

Allow eggs to cool overnight before packing. Always pack in precooled cases. Warm cases draw moisture

Hold eggs in a cool, moist egg room. Wet sacks on floor or a humidifier helps control temperature, humidity

Store eggs away from things like kerosene, onions, fruit. Eggs absorb bad odors readily

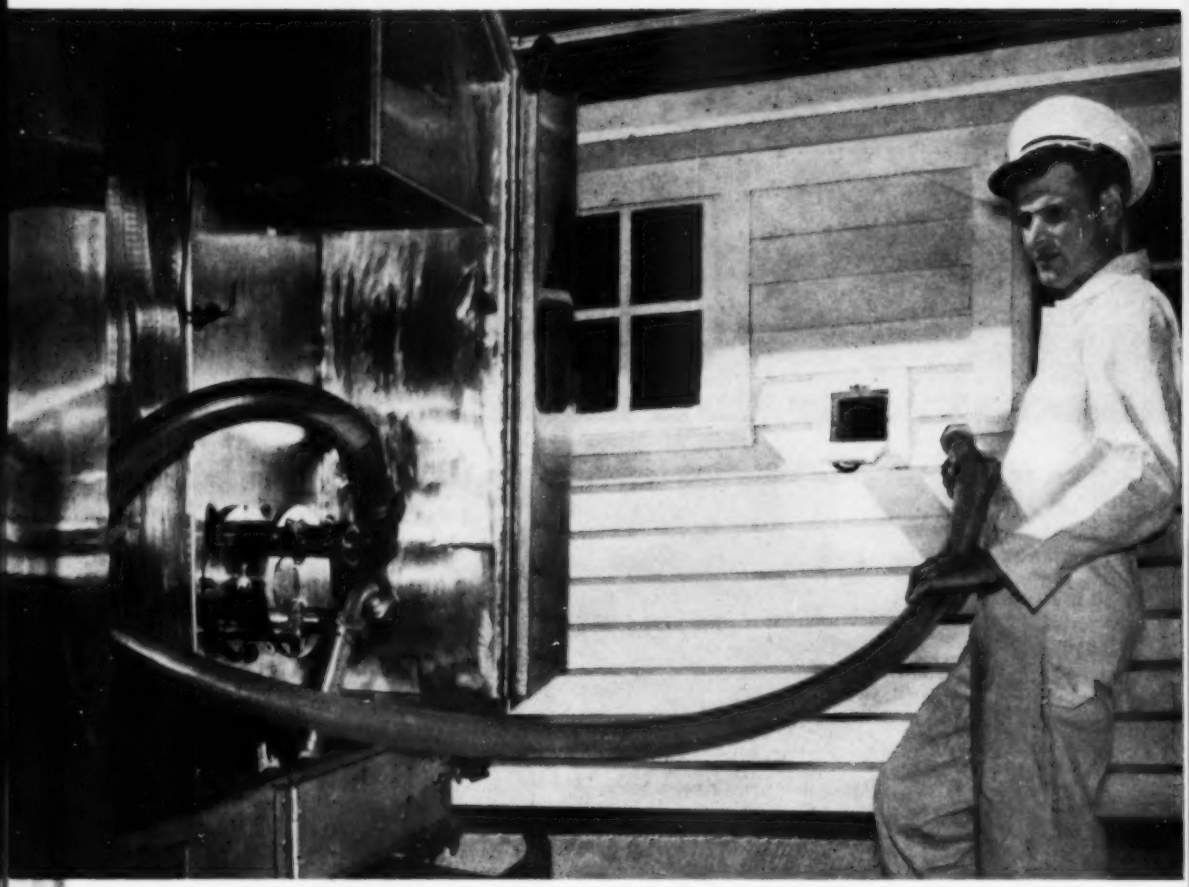


Deliver eggs at least twice per week. It's hard to maintain quality longer, especially in summer

Sell eggs on graded basis. Cull out checks and dirties for home use. Produce only infertile market eggs

Remove dirt spots and stains with sandpaper or steel wool. If washer is used, have water warmer than eggs

Plan year-round production of quality eggs. Try for large percentage of top-grade eggs



1. No milk cans to lift when the truck operator, Laverne McAleavey, arrives at farm. Hose is put through hole in milkhouse wall

Less work, more profits *with milk tanks*

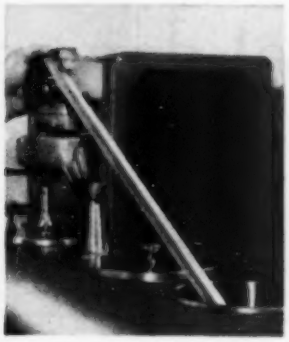
By Dick Hanson

Produce more milk, of higher quality, with less labor. That's been the dairyman's aim, especially in the last few years. To do this, efficient dairymen had to become even more efficient in order to make a profit. But dairying has never been a very efficient business. New developments have been slow in coming; labor has always been a problem.

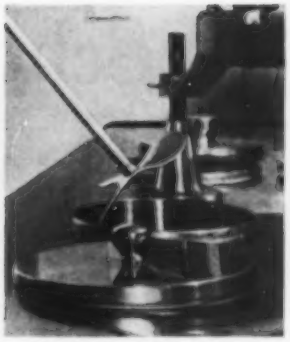
So, the good dairyman is always looking for something better—something to make dairying just a little easier and more profitable. Now, a few Midwestern dairymen think they may have what they've been looking for. Bulk milk cooling tanks in the milkhouse have completely changed dairying for them.

The idea of handling milk in bulk from the farm to the processor here in the Midwest was borrowed from large 200- or 300-cow dairy farms in California. On these California farms, giant refrigerated tanks at the farm replaced the milk can. Much smaller tanks have been designed and are now being used on *average-size* dairy farms here in the Midwest. *And it's surprising how*

2. Motor to operate milk pump is on the truck. Milkhouse is equipped with an electric outlet to power pump motor. Rear end of milk truck is stainless steel

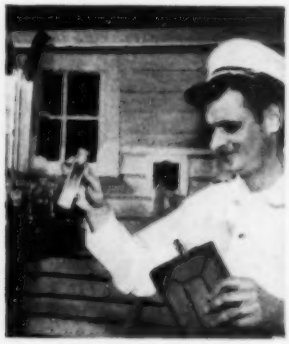


3. Amount of milk in the bulk cooling tank is measured with a metal measuring rod. Amount is recorded in book in milkhouse, and on slip for the creamery



4. Before connecting the hose, motor-powered agitator in the bulk cooling tank is switched on and runs until the milk in the bulk cooler is well mixed

5. After milk is thoroughly mixed, truck operator takes a butterfat sample from the bulk cooler. Farmer can take sample and make his own butterfat test



6. A butterfat sample taken by the truck operator is stored in rack at rear of bulk milk pickup truck. Samples are tested for butterfat at the creamery

7. Hose on the tank truck is connected, and pump motor is switched on. Milk is pumped directly from the cooling tank to the insulated tank on the bulk truck

Photographs: Photography, Inc.

dairying changes, once you get rid of the old milk can.

Here's how bulk milk handling at the farm works:

As soon as the cows are milked, the milk is poured into a refrigerated holding tank in the milkhouse. On some farms, a pipe-line system from the milkers takes the milk directly from the cow to the tank cooler. The refrigerated tank cools the milk rapidly and keeps it below 40 degrees. Most farmers say that the milk in the cooler is usually down to 40 degrees by the time milk from the last cow enters the cooler. Once the milk is in the bulk cooler, the farmer's work is done. (See pictures for truck-pickup details.)

This bulk milk handling idea sounds simple—and it is. But the advantages to the dairyman, processor, and consumer are tremendous. Here's what this system does for the dairyman:

1. Bulk cooling tanks at the farm eliminate the use and cost of milk cans during the milking and cooling period.

2. Spilling is held to a minimum. The milk is poured only once—from [*Turn to page 76*

8. On this particular bulk milk route, the tank-truck driver is responsible for washing the bulk milk cooler in the milkhouse after milk is pumped out. On some routes, dairymen wash tank themselves

School-day special–

the one-piece dress

6028. The princess dress with Peter Pan collar and button front is styled for the young teen-age figure

Photograph: Feave

6119. The circular skirt is made in two pieces, making this a very easy-to-sew fashion

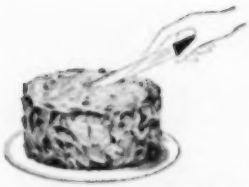
6120. Smart full-skirted dress has detachable collar and can be worn with wide belts so popular this year

When that special school event rolls round, you'll be all ready and waiting in your pert one-piecer. Whether it's an assembly talk, the class play, or a basketball date with that current man in your life, you'll want to wear a casual dress. Our attractive model, Miss Rosemary Barnes, Route 1, Oskaloosa, Iowa, will be carrying her books to a college classroom this fall. Rosemary, who was one of the Iowa state 4-H clothing finalists in 1951, knows the value of easy-to-care-for clothing and chooses her fabric wisely.

Back views of Advance Patterns on page 98

Can you answer these important questions?

"THE RIGHT ANSWERS" says Betty Crocker, "WILL HELP YOU BE A BETTER HOMEMAKER"



IS THERE A CORRECT WAY TO CUT A CAKE?

☐ yes ☐ no

Yes! Insert point of knife in middle of cake. Keep point down; slice with up and down motion. You'll have big, even slices with Betty Crocker PartyCake Mix and Chocolate Devils Food Cake Mix! Each has 1¼ lbs. of fine ingredients!

FINE CAKES NEED GOOD FRESH EGGS

☐ true ☐ false

True! That's why Betty Crocker Cake Mixes call for fresh eggs, added by you. Fresh eggs give finer cakes most consistently. And, although most other cake mixes contain some kind of dried eggs, Betty Crocker Cake Mixes do not!

SHOULD CONFECTIONERS' SUGAR BE SIFTED BEFORE MEASURING?

☐ yes ☐ no

Yes. Confectioners' sugar packs tight. Sift before measuring! Do this for Brown Beauty Icing (recipe on Devils Food package)! Notice how cake ingredients are already blended—contain premium shortening, Softasilk Cake Flour.

UNLIKE MOST CAKE MIXES, THERE ARE

No dried egg whites
No dried egg yolks
No dried eggs of any kind in

Betty Crocker CAKE MIXES

You add the eggs—You know they're fresh!

GINGERCAKE AND COOKY MIX
Spicy rich. Tender light as cake. Just add water, mix and bake.

PARTYCAKE MIX
for a beautiful, big, fine-textured yellow, white or spice cake. Use fresh eggs.

OF ALL THE KIDS WITH HOME-WASHED CLOTHES...

They wear the cleanest clothes in town

..."Mom" swears by TIDE!

They wear the cleanest clothes in town,
When they go off to school.
Mom says, "Use Tide, for bright clean clothes—
That's washday's golden rule!"

Tide GETS CLOTHES CLEANER THAN ANY SOAP!

CLEANEST WASH IN TOWN!

TIDE not only washes clothes cleaner—but whiter, too, in hardest water!

CLEANER CLOTHES! When you rinse out a Tide wash, you've got cleaner clothes than any other woman will get with *any* soap of *any* kind. And here's why—Tide not only gets out the ordinary dirt, but *removes dulling soap film*, as well!

WHITER, TOO! Tests prove Tide gets clothes *whiter* than any soap in *hardest* water. What's more, after just *one* Tide wash, soap-dulled colors come *brighter!* Millions of you women have proved these Tide miracles. You've seen the proof in your husband's cleaner, whiter shirts . . . in your own bright wash prints and household linens.

NEW MILDNESS FOR HANDS! Yes, Tide is *kind* to hands—now milder than ever before. Tough on dirt—but easy on your hands—that's Tide! Get Tide today . . . and hang the cleanest wash in town on *your* line!

ALWAYS BUY TWO... ONE FOR LAUNDRY... ONE FOR DISHES!

Tomatoes and Wax Beans
Serves 4

Brown . . . **1 cup sliced onions** in
3 tablespoons butter or **margarine**
Add . . . . . **1 tablespoon flour**
Mix well.
Add . . . . . **2 cups peeled, sliced fresh tomatoes**
2 cups wax beans, fresh or canned
½ teaspoon salt
dash of pepper
Simmer for 10 minutes.
—*Mrs. A. M. Dalke, Kansas*

Delicious Tomato Pie
Serves 6

Combine **¾ cup sugar**
¼ cup flour
½ teaspoon cinnamon
½ teaspoon nutmeg
Skin . . . . . **5 tomatoes (3 cups sliced)** and squeeze out seeds
Sprinkle **1 8-inch pastry-lined pie shell** with
2 tablespoons flour-spice mixture
Add tomatoes and remaining flour-spice mixture.
Dot with **2 tablespoons butter** or **margarine**
Adjust top crust.
Bake at 400° (moderately hot) for about 40 minutes or until crust is golden brown.
—*Mrs. Osie Boyd, Ohio*

Tasty Tomatoes
Serves 6

Combine **3 cups bread crumbs**
½ cup melted butter or **margarine**
3 tablespoons chopped parsley
3 tablespoons chopped chives
¾ teaspoon ground sage
dash of pepper
¾ teaspoon salt
Place . . . . . **12 tomato halves,** cut side up, in greased casserole
Pile stuffing on top.
Bake at 325° (moderate) for 20 minutes.
—*Mrs. Erma M. Henn*

Quick summer meats

Corned-beef-hash Molds
Serves 6

Brown . . . **2 tablespoons minced onion** in
2 tablespoons butter until tender
Break up **1 1-pound can corned-beef hash**
Blend in **sauteed onion**
1 teaspoon salt
1½ cups canned whole kernel corn, drained
2 tablespoons chopped sweet pickle
2 eggs, beaten
⅓ cup catsup
2 tablespoons chopped green pepper
2 teaspoons prepared mustard
Bake in 6 greased custard cups at 350° (moderate) for 45 minutes.
—*Mrs. Dale Ritter, Nebraska*

Frankfurter Dinner
Serves 6 to 8

Brown . . . **¾ cup chopped onion** and
½ cup chopped green pepper in
2 tablespoons hot shortening
Add . . . . . **2½ cups canned tomatoes**
6 frankfurters, sliced
½ teaspoon salt
⅛ teaspoon pepper
Simmer for 5 minutes.
Pour into greased 2-quart casserole.
Sift together:
½ cup sifted flour
1 teaspoon salt
1½ teaspoons baking powder
Stir in . . . . **¾ cup yellow corn meal**
Beat . . . . . **1 egg** with
⅔ cup milk
Stir in . . . . **2 tablespoons melted fat**

Combine; spread on tomato mixture.
Bake at 400° for 30 minutes.
—*Mrs. Kenneth L. Johnson, Missouri*

Barbecued Redskins

Serves 8

Brown . . . **½ cup chopped onion** in
2 tablespoons butter
Add . . . . **½ teaspoon salt**
⅛ teaspoon pepper
2 tablespoons brown sugar
2 tablespoons vinegar
3 tablespoons Worcestershire sauce
¼ cup lemon juice
1½ teaspoons prepared mustard
1 cup catsup
½ cup water
½ cup chopped celery
Simmer for 30 minutes.
Pour over **1½ pounds frankfurters** in 9x13-inch baking dish
Bake at 350° (moderate) for 30 minutes.

—Mrs. Eugene Chrisman, Nebraska

Braunschweiger Burgers

Serves 6

Cut . . . . . **½ pound braunschweiger** in ½-inch slices
Brown in **1 tablespoon shortening**
Split in half and toast
6 hamburger buns
Place meat slices in buttered buns.
Top with **tomato** and **onion slices**
pickle relish

Ham-Macaroni Loaf

Serves 6

Cook . . . . . **1 cup elbow macaroni** in **boiling, salted water;** drain
Heat . . . . **¾ cup milk** with
¼ cup butter
Add to . . . **¾ cup dry bread crumbs**
Beat . . . . . **2 egg yolks** until thick
Beat . . . . . **2 egg whites** until peaks form
Fold yolks and whites into milk mixture.
Fold in . . **macaroni**
¼ cup chopped onion
½ cup diced American cheese
12-ounce can luncheon meat, diced
Pour in 10x6-inch baking dish.
Bake at 350° for 30 minutes.
Serve with **hot mushroom soup.**

—Mrs. John Gronbeck, North Dakota

Tricks with tomatoes

Potato-salad-stuffed Tomatoes

Serves 6

Combine **2 cups diced, cooked potatoes**
6 tablespoons salad dressing
1 tablespoon grated onion
½ teaspoon salt
¼ teaspoon lemon juice
¾ teaspoon prepared mustard
3 tablespoons chopped dill pickle
1 hard-cooked egg, sliced
¼ cup diced American cheese
Scald . . . . **6 large tomatoes**
Dip in cold water.
Remove peel and blossom end.
Cut tomatoes almost through into sixths.
Spread the tomatoes apart gently.
Sprinkle with **salt**
Fill with **potato salad**
Sprinkle with **paprika**
Serve on **lettuce leaves.**

Easy Stuffed Tomatoes

Serves 6

Cut thin slice off tops of
6 tomatoes
Remove pulp and juice; save.
Melt . . . . **3 tablespoons butter** or **margarine** in skillet
Add . . . . . **¾ cup sliced mushrooms**
1½ tablespoons grated onion
Cook gently for about 5 minutes.
Add . . . . . **3 tablespoons flour**
½ teaspoon salt
dash of pepper
Mix well.
Add gradually
¾ cup milk
tomato pulp and **juice**
Cook 5 more minutes, stirring constantly.
Place tomato cups in 6x10-inch baking dish.
Fill with mushroom mixture.

Broil for 4 to 5 minutes.
Top with **3 tablespoons fine, dry bread crumbs**
Broil until browned, about 2 minutes.

—Mrs. Rachel Sanderson, New York

Model C-13 holds over 450 lbs. of assorted foods.

Save money, live better, with this genuine Deepfreeze Home Freezer!

Now is the time to buy bushels of just-picked fruits and vegetables at once-a-year low prices—and store them away for the winter months. The best place to store them is in a genuine Deepfreeze Home Freezer!

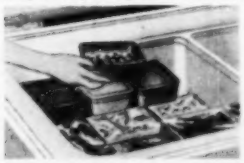
Freezing takes only a fraction of the work that canning does—and foods kept in a Deepfreeze Home Freezer retain the original flavor, color, shape and food value. Remember, too, you can save important money by buying meat in quantity and freezing it. Now, Deepfreeze Home Freezer Packaging Materials are available at your dealer's.

Be sure you get a genuine Deepfreeze Home Freezer. The exclusive trademark name *Deepfreeze* is your assurance of finest quality, advanced features and faithful performance. Choose from 6 models, 7 to 23 cu. ft. capacity, at your Deepfreeze dealer's today!

Deepfreeze Home Appliances

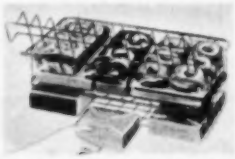
©1952 Deepfreeze Appliance Division, Motor Products Corporation, North Chicago, Illinois. Makers of genuine Deepfreeze Home Freezers, Refrigerators, Electric Ranges and Water Heaters. Specifications subject to change without notice.

Every Thursday Evening • Gabriel Heatter brings you the World's News • Mutual Network



New Deepfreeze "Casseroles"

Four one-pint aluminum utensils, beautifully finished in red, blue, green and gold, make it easy to store a pre-cooked meal or left-overs. You freeze, heat, serve, all in the same colorful containers. Exclusive with Deepfreeze!



New Deepfreeze "Handy Basket"

Keeps frozen foods you use most often at your fingertips . . . eliminates searching. Double-deck basket has hinged side for easy removal of bottom packages . . . without disturbing those above. Exclusive with Deepfreeze!

New Deepfreeze "Silent Signal"

The ultra-modern "control panel" of your Deepfreeze Home Freezer. White light shows when power is on. Red light glows if inside temperature gets too high for safety. Makes it easier to control temperatures correctly.

New Refrigerator by Deepfreeze

Deepfreeze also brings you a new and finer Refrigerator! Outstanding features are Automatic Defrosting, a genuine Deepfreeze Freezer Compartment, and "The Door that Stores More." 8 models, 9.3 to 11.5 cu. ft. capacity.

TRULY AN

American Beauty

Best to Give—Best to Get!

—American Beauty provides Adjustable-Automatic ironing

. . . plus

- **Perfect Balance**
- **Choice of Weights**
- **Cool, Comfortable Handle**
- **Super-flexible Cord**
- **Satin-finish soleplate for the easiest glide in ironing**

Pride of Brides for Three Generations

American Beauty

ELECTRIC IRON

Since 1894

American Electrical Heater Co.

Detroit 2, Michigan

Built to fit your family

From page 41

design, was chosen as the floor covering for the bedrooms, baths, and hall. This is an easy-to-keep floor and gives an Early American flavor to the whole house. The living- and dining-room rugs are cotton.

A rough-textured tweed rug was chosen for the living room in black and white tones that promise to conceal every speck of dust and dirt. Citron yellow walls and draperies give year-round warmth and cheerfulness. The upholstery fabrics range from a bold black-and-white check to a salt-and-pepper, black-and-white tweed.

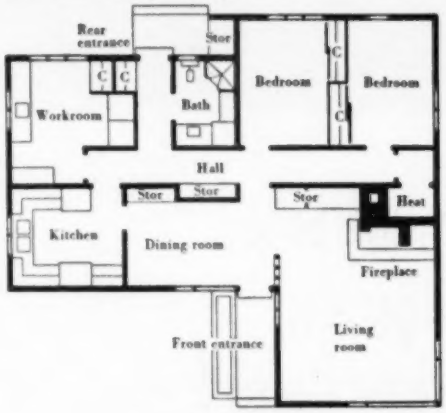
The kitchen and utility room carry out the black-and-white scheme with larger areas of the accent color—red.

How to get plans. A set of working drawings, a list of materials, and a specifications form are available—complete for only $2.50. Drawings include all three stages of the house plan. To get the working drawings and other material, choose the most convenient of these three ways: 1. Through your favorite department store. See page 89 for list of stores offering *Successful Farming* Home Planning Service. 2. Through top lumber dealers who offer *Successful Farming* Farm and Home Building Service. 3. By ordering direct by mail. When ordering direct, please address *Successful Farming*, 2308 Meredith Building, Des Moines 3, Iowa. No matter how you obtain your set of plans, ask for it by number—S2208.

The floor plan at left, and the two below, show three stages of the plan

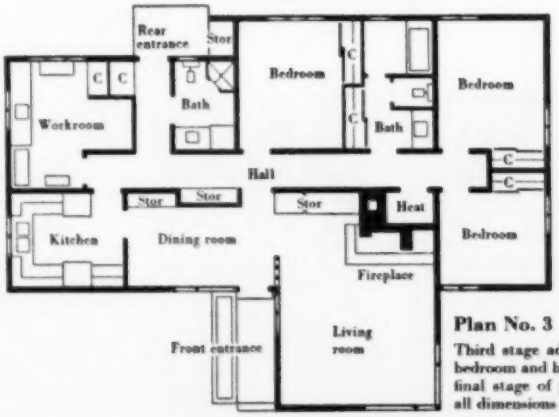
Plan No. 1

This stage has one bedroom and a workroom area located in the rear hall across from the bath. Over-all dimensions of this stage are 23'8"x24'



Plan No. 2

Second stage adds another bedroom and a large living room with a fireplace. The original bedroom becomes a full-sized workroom. The over-all dimensions of the second stage are 40'x44'6"



Plan No. 3

Third stage adds another bedroom and bath. This is final stage of plan. Over-all dimensions are 40'x56'

2-ton shown with 15-foot high stock rack—1½-ton also available

A STUDEBAKER TRUCK CUTS COSTS DAY AFTER DAY FOR YEARS

Any farmer who has a Studebaker truck gets off easy on gasoline expense. He saves plenty on repair bills, too. If you would like to cash in on these economies yourself, see a Studebaker dealer about a new Studebaker truck right away.

Sizes and wheelbases to suit virtually all farm hauling requirements are available in the comprehensive line of handsome new Studebaker trucks—½, ¾ and 1 ton pick-ups or stakes—rugged 1½ and 2 ton models.

You get in and out with ease thanks to the modern design of the new Studebaker truck cab. Enclosed safety steps. Low cab floor. Wide doors with "hold-open" stops. Tight-grip rotary latches. Big visibility.

Refreshing currents of air stream into the cab when the foot-controlled floor ventilators are opened up. Seat has "finger-tip" control—Adjusto-Air cushion. Steering post gearshift, as shown, is on light duty models.

On the job day-in, day-out! Stop in at any Studebaker showroom. Examine the solid construction of a Studebaker truck. You can see at once why it stands up so enduringly.

©1952, Studebaker, South Bend 27, Ind., U.S.A.

For free reprints of this advertisement, write to this magazine.

Will you leave these to your children?

Men have died to leave you these 4 symbols of freedom:

A Holy Bible—symbol of your right to worship as you wish.
(First Amendment, U. S. Constitution)

A door key—your right to lock your door against illegal government force and prying.
(Fourth Amendment, U. S. Constitution)

A pencil—freedom to speak or write what you think, whether you agree with the government or not.
(First Amendment, U. S. Constitution)

And a free ballot—your right to choose the people who represent you in government—your protection against government tyranny.
(Article I, U. S. Constitution)

HALF the world is trying to destroy these symbols—and what they stand for.

Even in this country, there are people who attack our freedoms, by trying to give the government more and more control over American life.

"The government should take over the doctors," they say, "and run the railroads, and the electric companies." But that's socialism. And socialism is one thing Americans *don't* want!

It is wise for us always to question and weigh the forces that influence our government. It's up to us all whether we'll leave our children freedom — or socialism.

• • • • •

Socialized electricity is one of the first goals of the people who want to push America down the hill to socialism. Each step they gain is a serious threat to *every* farm and business and home—and *everybody's* freedom. That's why this message is brought to you by America's ELECTRIC LIGHT AND POWER COMPANIES*.

**Names on request from this magazine*

Give calves a cud

We seem to hear more and more about transplanting cuds as a part of cattle-management programs. The practice isn't difficult—it simply means taking a cud from one animal and giving it to another. This permits the exchange of rumen bacteria which are absolutely necessary for digestion by cattle.

The cud-transfer process is of possible value under either one of two conditions. It frequently happens that calves do well for a time, and then practically stand still. They aren't actually sick, but they don't grow and develop at a normal rate.

Quite often such animals haven't the right kind of bacteria in their digestive systems. They can't handle feed other than the milk they were started on. In such cases, transplanting cuds from older animals comes close to accomplishing miracles at times.

Cuds are sometimes transplanted in older animals with good results, too. The practice is generally used on animals that are slow in recovering from sickness. The transplanted cud may do some good because the bacteria once present in the rumen may have been destroyed.

High fevers that go along with diseases like pneumonia are capable of killing the organisms in the rumen. Certain drugs given as medicine will often do the same thing. Under such conditions, animals may continue to act droopy because of faulty digestion. A fresh cud or two is sometimes all that's needed to get the digestion process going again.

It isn't difficult to transplant cuds. You'll probably have to wait until the middle of the forenoon or afternoon when the cattle are relaxed and chewing their cuds. Pick out a quiet animal and watch her until she swallows the cud she is chewing. Within a few seconds she will bring up another cud and stow it in her cheek for chewing.

You can tell which side the cud is on because the cheek bulges over the spot

Photographs: Author

Stealing the cud from the cow is done by opening the cow's mouth with the left hand and then taking the cud with the right hand

where it's carried. When a cud is brought up, approach the animal from the right side and drop your left arm over her nose so the upper lip can be grasped with the fingers. If you do this quietly, most cows will simply stop chewing their cuds and hold them in their mouths.

Use your left arm to bring the animal's head up close against your body. Then reach in the mouth with your right hand and grasp the cud where it is lodged in the cheek.

Be careful not to get your fingers crushed, as cows have both upper and lower teeth in the back of the mouth. When it is done quietly, many cows don't mind the cud-stealing at all. They'll bring up cud after cud for removal.

You'll need more than a single cud for your transplanting job. The cuds can be collected in a clean pail. Giving the cuds to another animal is done just like taking them from the animal. Swallowing occurs automatically when the cud is forced back over the base of the tongue.

The size of an animal determines the amount of cud material to be given. A 2-months-old calf might need only a small cud, while a 1,600-pound cow could probably do with a half-pail of the material. There's not much danger of overdosing.

After you decide how much to give the animal, transfer the cuds every day for about a week. By the end of that time you should be able to tell if the cud has done any good. Like many other farmers, you may be agreeably surprised at the results you get from transplanting cuds. If you don't do any good, you certainly won't do any harm.—*Dr. J. W. Bailey.*

Early-cut alfalfa

reduces yields

An experiment at Michigan State College shows the importance of cutting your alfalfa at the proper time. Early cutting of alfalfa reduces the yield and usually kills the stand.

During the three-year test one part of the field was cut when the plants were in 1/10 bloom, another part when the alfalfa was in the early bud stage, and another part before the blossoms were formed. Second cuttings were made when the plants made their maximum growth in August.

The alfalfa that was cut when in 1/10 bloom averaged 8 tons to the acre for the three-year period. The part cut when the buds were just purple made 1½ tons less to the acre. And the part that was cut earliest, when the buds were just forming, made 3 tons less than the 1/10-blossom cutting—and the last three cuttings did not pay for putting them up.—*W. S., Michigan.*

EVENT	WINNER	RECORD
Farmers' fields throughout the corn belt	PFISTER HYBRIDS	For 9 straight years, winners 8 out of 10 times in 6,156 yield checks.
Illinois "Golden Acre" Contest, 1951	PFISTER HYBRIDS	World record yield — 256.9 bu. per acre — from one acre!
Official Iowa 10-Acre Yield Contest, 1946	PFISTER HYBRIDS	World record yield from 10 acres — 224.2 bu. per acre!
International Hay and Grain Show	PFISTER HYBRIDS	Won more prizes than all other hybrids combined . . . for 3rd straight year!

"With the exception of occasional experimental orders, Rosy Morn Farms have used nothing but P. A. G. Hybrids during the past fifteen years, and while I would welcome any opportunity for a better value, I have not yet had occasion to change brands. We have produced high yields here — one 20 acre field yielded 3200 bushels."

Ralph A. Burnham
Mecomb, Illinois

ASK THE MAN WHO SELLS GENUINE PFISTER HYBRIDS

Now is the time to look ahead and plan your next year's corn crop. Let your P. A. G. dealer help you select Genuine Pfister Hybrids especially adapted to your local growing conditions.

"I have grown Genuine Pfister corn for a number of years and have fed it both as silage and as a grain feed. Its consistent high yield and fine feeding qualities makes Genuine Pfister tops with me."

Willard Rutledge
Clifton Hill, Missouri

"I have grown Genuine Pfister Hybrids almost exclusively since 1937. I have found that they yield well and produce quality grain on my farm, which is important to me in my feeding of several hundred head of cattle each year. It is usually necessary for me to buy corn to feed and when I do, I always look for a Genuine Pfister Hybrid."

A. K. Stoutner
Kaota, Iowa

PFISTER HYBRIDS

PFISTER ASSOCIATED GROWERS, INC.

General Offices • Aurora, Illinois

One of the thousand ways MASONITE TEMPERED PRESDWOOD helps you farm better

You'll cut down chore time with an easily-built community nest made with strong, long-lasting Masonite Tempered Presdwood®. Here's how:

On a framework of 1" x 1" and 1" x 2" wood strips, add ends, dividers, removable bottoms, front and sloping top of Masonite 1/8" Tempered Presdwood. Allow one nest for each five birds. Cut opening with scroll or jig saw. Attach folding perches by means of carriage bolts. Hang on side or front walls away from roosts.

There's no grain in all-wood Tempered Presdwood. Won't split, splinter or crack. No harboring places for vermin. Hard, smooth surface is easy to clean. Odor-free. Ask your building materials dealer about other farm uses for the 23 types and thicknesses of Masonite Presdwood hardboards.

MASONITE® CORPORATION
Dept. SF-8, Box 777, Chicago 90, Ill.

"Masonite" signifies that Masonite Corporation is the source of the product

Please send me, without obligation:
- ☐ Free plan No. AFB-185 for a community laying nest.
- ☐ Illustrated folder of other free plans.
- ☐ Complete information about farm uses of Masonite Presdwood.

Name.....

Address.....

Post Office.....State.....

Better Hardboards for Better Farming

Drugstore fold

for frozen foods

Bring edges of paper together above food, slightly off center. Begin fold, lifting so weight of the food holds paper taut. Make the fold narrow and even; crease it sharply

Repeat forward folds, creasing each one. There should be at least two complete folds. With last fold, snug paper around food. Press out air at ends; make pointed flaps

Photographs: Stanley

Flaps, too, are folded over and over and creased flat each time. Folded ends are secured firmly to the package with strips of tape. Easy as pie—effective as can be

More on packaging, page 34

"WE NEED THE BEST SPARK PLUGS MONEY CAN BUY TO FARM 87,000 ACRES"

—Says Supt. of Equipment, Wm. O'Neill, left, seen here with Mr. Bernard A. Gillespie, owner. Mr. Gillespie uses his Champion-equipped Navion personal plane to cover his many properties and activities.

Gillespie Dam was constructed and is operated for the ranch's own irrigation system.

Equipment sheds in the foreground, with hundreds of head of cattle visible in the background, indicate the large scale operation of Gillespie Ranch.

International Gradeall used in maintaining irrigation canals is Champion-equipped.

Gillespie Ranch operates 35 tractors year round. All are Champion-equipped.

Special feed wagons automatically deliver balanced rations to troughs in front of stock pens.

In the Gila River area of Arizona is an 87,000 acre ranch, owned and actively managed by Mr. Bernard A. Gillespie.

Farming on such a vast scale naturally calls for a lot of power-driven equipment. For in addition to running anywhere from eight to fifteen thousand head of cattle, the Gillespie Ranch raises and processes all of its own forage crops.

These include 15,000 acres in alfalfa, 10,000 acres in miscellaneous food crops, and substantial acreage in seed crops exclusively. These last are grown for all of their own requirements, and because of their weed-free characteristics, there is an excellent demand for any surplus.

Mr. William O'Neill, Superintendent of Equipment, says, "Farming on such a vast scale calls for equipment that will perform dependably and *on schedule* at all times. We have, in addition to passenger cars, 50 trucks and pick-ups, 12 motor scooters, 35 tractors, 6 combines and other miscellaneous power farming equipment. We also use some specially designed equipment to dredge canals, such as draglines and an International Gradeall.

"All of the engines that power these units must perform to exacting standards, and we have found that Champion Spark Plugs meet every requirement in every engine. That's why we use Champions exclusively."

Dependable

CHAMPION

SPARK PLUGS ARE WELL WORTH ASKING FOR— BY NAME

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

How can Specialized Tires

Save Farm Dollars

By answering the specific demands of every farm vehicle and implement, Gillette, realizing the importance of this specialization, has designed a complete line of tires to meet these individual needs. Each tire is designed to get the best out of your equipment — save working hours — and your farm dollars.

1. **Super Power Bar** gives your tractor a combination of traction, cleaning action and wear that really stretches your farm dollars.

2. **The extra-low pressure President** floats your car over the toughest roads, gives you added safety and added mileage.

3. **Your truck** will get more off-the-road traction, more on-the-road mileage with the great new Gillette Super Traction Truck Tire.

4. **Your Gillette Dealer's** new Farm Tire Service Plan will save you even more farm dollars. He's your farm tire expert — waiting to work for you — waiting for your call.

Let your Gillette Dealer help you save money. SEE HIM TODAY!

A Bear for Wear

GILLETTE Tires

DIVISION OF UNITED STATES RUBBER COMPANY

Organic matter

From page 33

rye with another 300 pounds of fertilizer. Rye is a tough plant, but, while it did better than the oats, it was still pretty scrubby the following spring. This time, instead of plowing and fitting the field, we tried a trash-mulch system. We went over the field with a disc and tiller (a kind of light field cultivator, ideal for working in a trash mulch). The field was not worked more than 3 or 4 inches deep, but the soil was thoroughly mixed with the trash made by the rye and a hearty crop of weeds. Then came another seeding of alfalfa, bromegrass, and Ladino.

What happened was very nearly a miracle. The trashy surface prevented rainfall from running off. Virtually every seed put on the field germinated and, with them, billions of seeds we had *not* sowed.

We mowed the weeds when they were in flower and again in August. Again a miracle occurred. The mowed weeds served as a mulch for the seedlings, retaining the moisture and keeping the ground cool. It was the best grass and legume seeding we had ever had.

The following spring, we had a rich, green, heavy crop of alfalfa-brome-Ladino. It provided us with a first cutting for hay and silage and rich pasture.

Then we asked ourselves a question. If we can use rye and weeds for a mulch seeding, why not use the broom sedge, poverty grass, blackberries, elderberries, and saplings? We tried this the next season. Again, we used a disc and tiller until we had a fairly even trash mulch. But it was still too rough for our tastes, and there were a lot of bushes, saplings, and goldenrod that were not killed. Also, it was expensive in terms of man-hours and gasoline. In order to get any sort of job we had to go over the field 8 or 9 times.

So we decided to try the rotary tiller. It killed and demolished everything up to saplings 2 inches in diameter, reducing it all to organic trash. It can be a dangerous tool to use for fitting, especially if used thoughtlessly in soils low in organic materials, for its fast and violent action might destroy the remaining structure of the soil. We did not use it, however, to fit a field in the usual way; we set it only 2 or 3 inches deep to create a trash mulch of weeds and rubbish.

During all the freezing and thawing, the snow and the heavy rains of winter, water did not run off the steep slopes of Poverty Nob.

In the spring, we went over it once with an offset disc to freshen up the surface and kill the first germinating weed seeds. Then, with 400 pounds of 3-12-12, we seeded the usual mixture of grass and legumes and mowed down the weeds twice during the summer. The following spring, Poverty Nob was dark green and thick with pasture to the very top.

The whole process, including gas, seed, fertilizer, and the amortization of ma-

chinery, cost us roughly $35 an acre. In the first year of production we took off the equivalent of $75 to $100 per acre in terms of pasture, hay, and silage.

This was, however, only the first step of a fundamental process which we extended, in an adapted form, to our cropland. We used the multiple-chisel-type plow, which is really a strong and heavy field cultivator, capable of tilling and fitting land to a maximum depth of nearly 2 feet. On the cropland, the rotary tiller again came into use to break up the very heavy sods which came on fields after 6 to 8 years of alfalfa, brome, and Ladino.

The leveling and mixing action of an offset disc further mixes sod, roots, manure, and green growth, and completes the fitting of the field. This gives us a compost, ranging from 15 to over 20 inches deep, in which we grow our small grains and corn.

The whole story is not one of machinery alone but also of selectivity in grasses, legumes, and the right fertilizers. Our subsoils are largely of glacial origin and minerally well balanced. Once we came to understand this, we stopped seeding shallow-rooted legumes and grasses and replaced them in seedings with only the heavy, deep-rooted grasses and legumes such as sweet clover, alfalfa, bromegrass, orchard grass, and fescue. We continue to seed Ladino in mixtures, both in meadows and pasture, because of its high nitrogen production, high protein, and heavy pasture production.

A striking thing has happened and is happening at Malabar Farm. We have built or are building topsoil *deeper than the original virgin forest soil*. Added to green manure, the heavy root systems, and heavy sods that are constantly being turned back into the soil are huge quantities of barnyard manure. Each year we have produced more forage, carried more animals, produced more manure, increased the depth of topsoil, and, in turn, increased production. The only outside element is the application of lime, when needed, and of commercial fertilizer in quantity sufficient to balance the amounts of minerals carried off the farm in the form of milk, meat, wool, hides, and hair.

We have freed Nature to work for us in her own fashion, without any tricks or short cuts. *We have just speeded up her own process.* One has only to see our fields, what they produce, and thrust a spade deep down to find deep, rich topsoil where there was none at all only a few years earlier. **END**

Pickled Onions

The recipe for pickled onions in the June story, "Every Jar a Winner," omitted 6 cups of white vinegar. The vinegar should be combined with the molasses, horseradish, pickling spices, and salt. The mixture is heated to boiling and poured over the onions in hot, sterilized jars.

Don't get stuck with a rust-clogged radiator!

Drain it out, then clean it out.

To avoid overheating . . . use

DU PONT
Cooling System
CLEANSER

Summer is the season when your cooling system must work hardest to prevent engine overheating. That's why it's so important now to be sure your cooling system is thoroughly clean. **Du Pont Cleanser** safely and easily removes the rust that causes trouble. Use it in your car as well as in your tractors and trucks. Ask for Du Pont Cleanser at your service station today . . . and inquire about the complete Du Pont "Drain Out" service.

After cleaning, prevent rust all summer long with

NEW DU PONT ANTI-RUST and Water Pump Lubricant

It's a cinch to keep new rust from forming in your radiator with Du Pont Anti-Rust. This new liquid rust inhibitor not only retards corrosion but neutralizes acids, lubricates the water pump and helps eliminate squeaks. It won't clog or cause sludge . . . is harmless to hose and metal parts.

DU PONT

BETTER THINGS FOR BETTER LIVING
. . . THROUGH CHEMISTRY

Another International Advertisement by Spencer Chemical Company

IOWA CORN KING. Bob Blakely (left) of Grinnell had the highest 10-acre yield of 483 farmers entered in 1951 Master Corn Growers' Contest: 149.99 bushels! Here he is discussing his 1953 fertilizer needs with his "Mr. N" fertilizer dealer, John Porter, Grinnell.

Corn Champion of Iowa Says— Nitrogen Helped Make Difference!

100 lbs. of ammonium nitrate helps give Grinnell farmer state's top yield: 149.99 bushels per acre

The tallest corn in Iowa may not grow on the farm of young Bob Blakely of Grinnell, but at least the *highest yielding* corn grows there. That fact was recognized officially when Bob's 149.99 bushels per acre made him Corn King of Iowa for 1951.

The smiling champion explains his success this way: "After finishing third in 1950, I was determined to try harder in '51. So the next spring I did something I hadn't believed was necessary before: I broadcast 100 pounds of Spencer "Mr. N" Ammonium Nitrate Fertilizer per acre and plowed it down with my manure. Then I applied 100 pounds of 5-20-10 starter fertilizer.

"That 'Mr. N' Ammonium Nitrate really gave my corn a boost. And even though '51 was a poor year for Iowa corn, our 10-acre contest plot made 149 bushels. While many good practices are necessary to produce such a yield as this, I do feel that *nitrogen helped make the difference* between my third place and championship yields."

NOTE: Current demand for Spencer Ammonium Nitrate Fertilizer exceeds supply. Your dealer may not be able to fill your order. We are operating our plants 7 days a week, 24 hours a day, and are doing our best to increase output.

Dr. E. H. Tyner, professor of soil fertility, University of Illinois, is shown in front of a Kjeldahl apparatus used to determine total nitrogen. "The introduction of high-yielding hybrid corn," says Dr. Tyner, "has hastened the depletion of soil nitrogen. If we are to continue planting such varieties, we must maintain higher soil nitrogen balances than appear possible with legumes alone. Since nitrogen cannot be stockpiled, commercial nitrogen should be applied each year."

FREE BOOKLETS

Spencer Chemical Co.
609 Dwight Bldg.
Kansas City, Mo.

Please send me:
____"You Can Grow Corn for 25c a Bushel."
____"Nitrogen Timetable" for My State.

Name_____

Address_____

SPENCER®

Supplies the Nitrogen

The PLAY

Where Playfellows

Old Mr. Hops waited on the bank while Little Toady hopped out of the old millpond. He had lived in the pond ever since he was a wee tadpole.

Little Toady didn't want to go to help his grandpa, Old Mr. Hops, take care of his garden. He wanted to stay near the pond and play with the other young toads. But Grandpa needed an extra hand—and of all the youngsters he'd picked Little Toady. So, off they went—*hop-hop-hop* went Grandpa and *hoppity-hop* went Toady, right behind him. They hopped down the path and over the hills to the spot where Mr. Hops had his garden every year.

When they finally reached Old Mr. Hops' garden, Little Toady was so glad that he felt like singing. He blew out his throat until it looked as though he were holding a marble, and sang long and loud—"*Brrr-ump! brrr-ump!*" Grandpa listened and pretty soon he started singing, too.

All of a sudden, though, Little Toady stopped short. "Oh, Grandpa," he cried, "my coat's too tight, I can't breathe. Help me!"

Old Mr. Hops leaned over and looked at Little Toady, and said: "Quick, hump yourself up and bend your head down!" Little Toady did, and as he drew a deep breath, his coat split in three directions.

"See, Little Toady," Old Mr. Hops laughed, "you've just outgrown your old coat. Pull it off gently. Your new coat is all ready."

Little Toady pulled off his old coat, stripping it off his legs as though he were turning gloves inside out. Oh, how he wished he were back at the pond so he could peek in the water and see how handsome he looked.

Early the next morning Old Mr. Hops took Little Toady out to the lettuce bed for breakfast. On the way a dog ran through the garden. Little Toady saw

HOUSE

meet every month

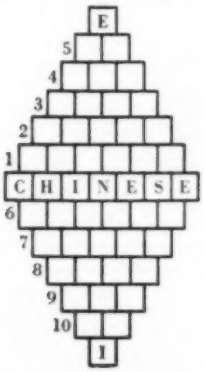
Grandpa flatten himself out on the ground and look just like a lump of dirt, so he did it, too, and the dog didn't see them.

"Whew," said Grandpa, mopping his brow, "that was a close one! But here's the lettuce bed. Try a slug, it's good." Little Toady tried some. "Ummmm," he said. Then he saw a bug and stuck out his long sticky pink tongue which was fastened to the front of his mouth. He gave a little hop and caught the bug on his tongue before it could scurry away.

Just then he heard someone say, "Look! There's our Old Mr. Hops. He's got a little toad with him. Now we know our garden will be all right."

Little Toady glanced at his grandpa and saw how proud he was and suddenly he was proud, too. Just think, Grandpa had chosen him out of all the little toads in the pond, to be his helper.—*Maude E. Birkey.*

Chinese puzzle: Starting at line 1, drop a letter from the word "Chinese" and form a new word with the remaining letters. Do the same with lines 2 to 5. Begin again with the complete word and continue dropping letters through line **10.**



Here are the definitions for each new word to be formed in the Chinese puzzle. A single vowel will remain at the top and bottom of the completed puzzle.

1. Moves along slowly
2. Polish
3. Lay eggs
4. That woman
5. That man
6. Wall recesses
7. Signs of overweight
8. Part of the leg
9. Possessive pronoun
10. Exists

Solution:

1. Inches 2. Shine 3. Hens 4. She 5. He 6. Niches 7. Chins 8. Shin 9. His 10. Is.

"Last time we'll do this . . .

THIS ROOF WILL LAST!"

Once a roof is up, you should be able to forget it. You can if the roof is Alcoa Aluminum Roofing.

It defies the weather, resists corrosion, doesn't have to be painted, and practically eliminates upkeep.

There is another way in which aluminum makes your farming easier, more efficient. It blocks out summer heat, keeps temperatures more uniform inside barns or hen houses.

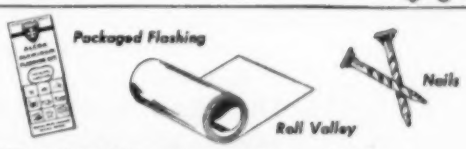
If you dairy farm, or raise livestock, you know that a more even temperature encourages milk production and faster gains. If you raise poultry, you can see the effect in flocks that feed better, lay better. Put those things together with a roof that costs nothing to maintain and you begin to realize a real saving.

Look out at your buildings and see if they don't need an Alcoa roof that will take care of itself . . . and better care of your stock. There is an Alcoa dealer near you who can tell you more about this investment.

ALUMINUM COMPANY OF AMERICA
2111-H Gulf Bldg., Pittsburgh 19, Pa.

ALCOA ALUMINUM
ROOFING SHEET
THE ROOF WITH THE LONG FUTURE

Ask your dealer for these Alcoa Aluminum Products



"SEE IT NOW" with Edward R. Murrow—CBS-TV every Sunday . . . brings the world to your armchair. Consult your newspaper for local time and channel.

Hold Salable Milk Production!
Treat Mastitis and Udder Injuries with...

Veterinary **AUREOMYCIN**
Crystalline **OINTMENT**
for Udder Infusion *Lederle*

Most Versatile of All Antibiotics Acts Effectively on Many Bacteria

Prompt treatment with VETERINARY AUREOMYCIN *Crystalline* OINTMENT *Lederle* of udder and teat wounds aids in avoiding mastitis—the greatest threat to profitable milk production. Early infusion of infected quarters saves much marketable milk. A single infusion of nonirritating and nontoxic AUREOMYCIN OINTMENT usually has been found sufficient to bring infection under control. Certain forms of mastitis that are not affected by other treatments may be successfully controlled by aureomycin.

Active, effective concentrations of aureomycin are maintained for more than 48 hours after a single infusion, even though the udder is milked out every 12 hours.

In cases of acute septic mastitis, in addition to udder infusion, the injectable form of SULMET* Sulfamethazine *Lederle* should be used.** Subsequent treatment may be conducted with SULMET OBLETS*.

VETERINARY AUREOMYCIN *Crystalline* INTRAVENOUS** may be used in the treatment of severe acute septicemia as a highly effective agent against most bacteria.

For maximum efficiency in the use of AUREOMYCIN OINTMENT for Udder Infusion, as well as best management practices and disease-control procedures for avoidance of reinfection, consult your veterinarian.

Write for folder on AUREOMYCIN OINTMENT.

*Reg. U. S. Pat. Off. **By, or on the advice of, a veterinarian.

Animal Industry Section

LEDERLE LABORATORIES DIVISION

AMERICAN *Cyanamid* COMPANY

30 Rockefeller Plaza New York 20, N. Y.

How we get summer pasture

From page 37

"Night pasture helped out."

Charles Trimble, of Boone County, Missouri, used an idea which worked well last year. Eight sows and 65 pigs were kept on a 15-acre Ladino and fescue pasture. Each night during the "short" pasture season his 50-cow dairy herd also was turned in it. "By doing this, we took the heavy pressure off both our permanent pasture and the small supplemental pasture," Trimble says. "This system also eliminates any danger of bloat from Ladino. The cows are on a blade-grass pasture all day, then fed at milking time in the evenings."

"Reed canary grass for cows, calves."

Harvey Moeckley, of Polk County, Iowa, has a field of low ground seeded to reed canary grass. It makes plenty of pasture all summer for his herd of Angus cows, besides his dry cows and young cattle. Moeckley can get all the pasture he needs for his dairy herd from his bluegrass permanent pasture by not overgrazing it and by liberal use of lime and manure.

"Rotate legume-grass pasture."

Fay Owens, Calhoun County, Michigan, who has dairy, sheep, and hogs, doesn't have a pasture problem. He has alfalfa-brome-Ladino pastures which he rotates as needed. One pasture will be recovering while another is being grazed. He seeds no small grain, uses no nurse crop, and has never missed a seeding yet. Sometimes he puts his legume-grass seeding in the corn at the time of the last cultivation. If it looks too dry, he puts rye or some other cover crop in the corn at last cultivation. Then he plows it under the next spring and makes his seeding with no nurse crop.

Summer pasture plays a big part in the poultry business of the Bernard Brothers in Clinton County, Ohio. They raise 4,000 sexed pullets each year for layers.

The pullets are raised in 15 range shelters scattered over 5 acres of legume range. The Bernard Brothers consider this 5 acres of pasture so important that they would favor a heavy seeding rather than chance not getting a good stand. They seed 10 pounds of alfalfa and 1½ pounds of Ladino clover per acre with the oats. At the same time, 400 pounds per acre of 5-10-10 fertilizer is applied.

The pasture is ready for use the next year, and the chicks are put on it sometime during the first 10 days in April. The pasture is clipped four or five times during the summer.

John W. Cline, St. Lawrence County, New York, tells his story.

"You can talk about your substitutes for summer pasture, but I'm sold on Ladino and orchard grass, plus birdsfoot trefoil. Properly fertilized, clipped, and rotated, 10 acres of Ladino and orchard grass and 9 acres of birdsfoot trefoil will carry my 35 milkers in good shape all summer—and then some.

"The Ladino-orchard grass pasture is split in two and rotated about every 10 days. I think it's worth more as pasture than hay. The birdsfoot trefoil probably will be used for first-cutting hay this year, and for aftermath grazing later."

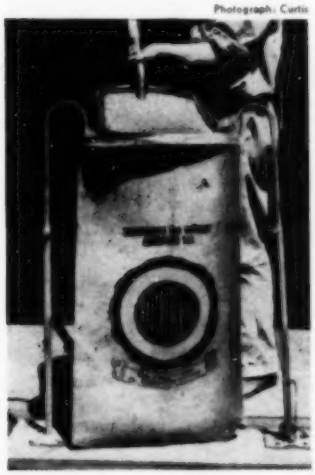
These are just a few of many ways to get by the summer pasture peribd. Perhaps you will hear of another system which fits your farm. But whatever scheme you use, you'll find the results showing up where you like them most—in your bank deposits. **END**

Here's a handy sack holder

No extra man is needed to hold sacks at the Garden City, Kansas, Branch Experiment Station. A simple sack holder does the job. Both uprights of the holder are adjustable in height. The upright on the right is spring-loaded to hold the sack in place and to adjust to the width of the sack. The spring gives the upright a constant outward pull.

The "U" pieces which hold the sack are made from angle iron which has been serrated on one side to give the holder a firm grip on the sack.—*J. C., Kansas.*

Photograph: Curtis

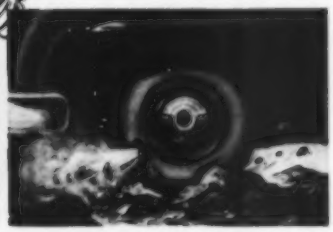


Never before has any famous tire protected you so completely

ARMSTRONG Rhino-Flex TIRES

ARMSTRONG, one of America's oldest tire manufacturers, leads the industry with the longest, strongest user protection ever offered on any famous passenger tire —*unconditionally guaranteed for 18 months*...at *no* extra cost! Protect your family—protect your car. Get Armstrong Tires!

UNCONDITIONALLY GUARANTEED FOR 18 MONTHS against all road hazards



ARMSTRONG PASSENGER TIRES—with super-strong Rhino-Flex construction—give you *this* sensational guarantee with *no limit on mileage!*

DON'T TAKE RISKS! Safeguard your car against blowouts. Look up your Armstrong Dealer in classified phone book—get free inspection *now!*

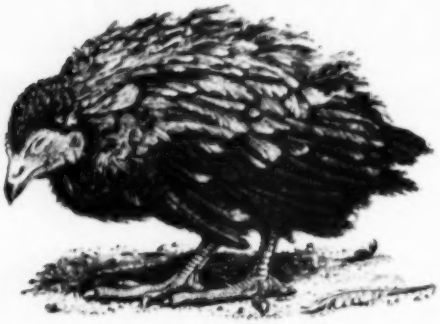
ARMSTRONG TRUCK AND TRACTOR TIRES—UNBEATABLE VALUES!

ARMSTRONG TIRES

ARMSTRONG SAVES YOU MONEY! Get Rhino-Flex truck tires—low initial cost, low service cost, longer wear. And remember, Armstrong mud-free, power-pulling tractor tires are *unconditionally guaranteed for 2 years!*

ARMSTRONG RUBBER COMPANY, West Haven 16, Conn.; Norwalk, Conn.; Natchez, Miss.; Des Moines, Iowa; 601 Second Street, San Francisco, Calif. *Export Division:* 20 East 50th Street, New York 22, N. Y.

Don't Let This Happen



Avoid Profit-Stealing Coccidiosis

SULFAQUINOXALINE

Proved best for both prevention and control of outbreaks

A recent experiment station study* proves again that SULFAQUINOXALINE at economical levels in feeds successfully combats coccidiosis losses: Birds not fed SQ—8.3 per cent mortality; birds fed SQ—no mortality.

Commercial experience with millions of birds shows, in general, that mortality may run as high as 20 per cent in flocks without protection, but is only 2 per cent or less in flocks protected by Sulfaquinoxaline. Here's why:

- SQ combats all eight of the most damaging species of coccidia.
- SQ permits development of immunity to coccidiosis.
- SQ protects best when needed most—under warm, moist conditions.
- SQ has no adverse effect on fertility, hatchability, or egg production.
- Consistent performance: With SQ, coccidiosis has ceased to be a problem in more than 160 successive flocks raised on the same farm over a period of five years.

Your feed or remedy dealer has Sulfaquinoxaline in the form of feed mixtures, premixes, solutions, tablets, or soluble powders.

*Bressler, G. O. and Gordeuk, S., Jr., *Poultry Science* 30:509, 1951

SEND FOR FREE NEW FOLDERS—Illustrated folders give practical information on how to use Sulfaquinoxaline for chickens and turkeys. Mail coupon today.

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Please send free folder: *How to Stop Large Losses from Coccidiosis* .....in Chickens
.....in Turkeys.

Name.....
(Please Print)

R. F. D. or Street.....

City.....Zone.....State.....

Wrap it right!

From page 31

The glass jars are larger at the top, so food can be removed from them without thawing. Their lids have "built-in" rubber rings to insure tight sealing. Rigid, square-cornered plastic and aluminum containers in various sizes are easy to fill and empty.

Freezer tape is a necessity for sealing paper-wrapped packages. Though it is not needed for fastening foil, tape comes in handy for labeling it (see photograph of baked foods on page 34). Using the new colored freezer tapes (different colors for different foods) makes it easier to identify packages in the freezer or locker.

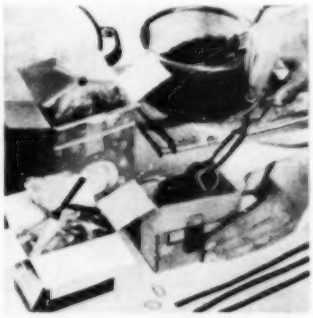
Stockinet, a loose-knit tubing, is an excellent overwrap to protect packages wrapped in cellophane, plastic bags, or other materials that might easily be torn during freezer storage. A length of stockinet can be cut from the roll, pulled like a stretchy stocking over a pie, a whole hen, or a tray of party sandwiches. To fasten it, just stretch the ends and tie a knot.

Stocking your cupboard with a variety of dependable packaging materials is the biggest secret of success in food freezing.

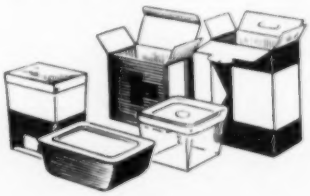
No matter how good the wrapping material may be, it must be well sealed. The containers we've shown are easy to seal—just press, snap, or screw the lids in place, or twist and fasten the tops of the bags.

For wrapping, the drugstore fold is a recommended method. (See step-by-step directions for the drugstore fold, page 58.)

Remember that air is the worst enemy of perfect frozen foods. Smooth the material closely to the food as you wrap; "squeeze" excess air out of plastic bags before fastening. Whole hens in plastic bags can be "dunked" in water to force out air, giving a perfect, clinging wrap.

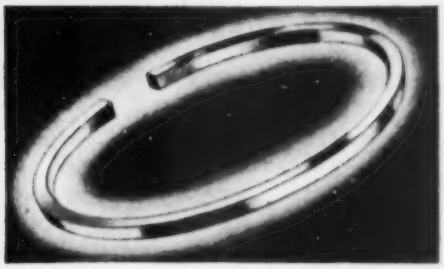


Vegetables are easy to fit into "squarish" cartons to save freezer space. Make sure bags are moisture-vaporproof. Fasten them with tape, rubber band, or twists of wire



AMAZING RADIO-ACTIVE TRACER TESTS PROVE—

Mobiloil's Powerful NEW Wear-Fighting Action



Use of radio-active piston rings makes it possible—for the first time—to measure engine wear with truly scientific accuracy.

New Super-Detergent Formula Means Longer Engine Life—Less Oil Consumed!

It's true—proved by radio-active tracers from the Oak Ridge atomic pile! Mobiloil's new combination of ingredients can *stretch* the life of your engines—can drastically reduce engine wear during the periods when most wear occurs . . . during starts, warm-ups and stop-go operation. Less engine wear means less spent on oil make-up, too!

Here's how we prove it . . . Radio-active piston rings are installed in test engines. "Hot" metal particles, scuffed off the rings into the motor oil, are then measured by Geiger counter. The result proves Mobiloil with new super-detergent formula gives you new *wear-fighting action*—for top performance, peak operating economy!

WHY ACCEPT LESS THAN THE

World's Largest-Selling Motor Oil

Mobilgas
SOCONY-VACUUM

SOCONY-VACUUM OIL CO., INC., 26 Broadway, New York 4, N. Y., and Affiliates: MAGNOLIA PETROLEUM CO., Dallas, GENERAL PETROLEUM CORP., Los Angeles

TRIPLE YOUR MONEY BACK

if you don't agree SURE-JELL Pectin makes jams and jellies with finer Real Fresh-Fruit Flavor!*

We make this offer to let you see for yourself that jams and jellies made with Sure-Jell have *more* of that rich *Real Fresh-Fruit Flavor*. Here's why:

Coded for freshness—you *know* Sure-Jell is fresh!

One-minute boil—saves precious juice and flavor!

60 kitchen-tested recipes—for perfect results, follow recipes exactly.

Highly concentrated—a *natural* fruit pectin product!

IT'S A FACT!

Almost 3½ times as many glasses of jam and jelly were made with Sure-Jell in 1951 than were made with *all other powdered pectins combined.*

***HERE'S ALL YOU DO to get triple your money back**

If you've ever made jams and jellies with finer *Real Fresh-Fruit Flavor*, just return the front panel of the Sure-Jell package (the one with the jelly glasses on it) to Sure-Jell, Dept. PW, 250 Park Ave., New York 17, N. Y. Include your name and address, what you paid for Sure-Jell, and 25 words or less on why the flavor disappointed you and what method of jelly making you prefer. You'll get back *triple* what you paid for Sure-Jell, plus postage costs.

A Product of General Foods

SURE-JELL is America's Largest-Selling Powdered Pectin!

Tips for the cook

Ideas that add sparkle to meals and make food preparation easier

By Martha Quinn

You can make luscious ripe-tomato salads with very little effort. In the morning, or in advance of serving time, dip ripe tomatoes into boiling water for 1 minute. Then plunge them into cold water, and peel.

Chill the whole tomatoes until serving time. Slice, or leave whole. Roll in coarse salt, pepper, and chopped parsley.

Photographs: Stanley

Picnic-bound salads arrive on the scene properly chilled if you place them in the top of a double boiler. Fill the lower part of the double boiler with ice cubes. This trick keeps coleslaw, macaroni salad, and tossed salad—to mention a few—crisp and cool till serving time. No more sad, wilted picnic salads for you.

For a special party cake for your child, use an animal- or novelty-shaped cooky cutter, and press lightly in the white-frosted cake to make an outline. Fill in the outline with tinted frosting.

Another tip to remember when you serve a birthday cake is to place the candles around the cake on the plate, instead of on the cake. They can be held in place with wax from another candle.

For delicious topping on griddle cakes, waffles, and French toast, cook down sweetened-to-taste blueberries with a stick or two of cinnamon. Remove the cinnamon. While the berries are bubbly hot, spoon them over the griddle cakes. Use fresh, canned, or frozen berries. Here's a breakfast that bears repeating.

Here's a cook's trick for keeping the centers from popping out of onions while they are cooking. Poke a hole through the center of each onion with a toothpick or a skewer. Now they're ready to slip into a stew, or to be cooked for creaming. Each one will stay whole and make your finished dish attractive. So simple, too!

Meat-ball lovers will be delighted with the surprise that awaits them when you shape the meat mixture into balls around large stuffed olives or cubes of American cheese. Next time you make Italian meat balls and spaghetti, form half of the balls with olive and half with cheese centers. Cook them as you always do. You'll have a treat to please each and every member of the family, both young and old.

Now! New Improved VEL* CLEANS MILKING EQUIPMENT

Cleaner...Faster...Easier!

says Harvey Schneider,

HIGH QUALITY MILK DEMANDS CLEAN EQUIPMENT

Really clean milking equipment lessens the danger of refusal at the milk-processing plant — gives you higher profits. New, improved Vel does an excellent cleaning job, no matter how hard the water. New Vel is not a soap. Vel is a soapless suds recommended by many leading agricultural schools and milking equipment manufacturers.

*VEL is the trade-mark of Colgate-Palmolive-Peet Co.

BUY 2 PACKAGES OF VEL—1 FOR THE KITCHEN, 1 FOR THE MILKHOUSE

"this triangle trademark means quality to me!"

That's James Little, R. 4, Janesville, Wisconsin, talking. He runs a 120-acre dairy farm with a milkherd of 40 Holsteins, and raises 60 market hogs a year. Mr. Little's ten-foot tandem Case Disc Harrow equipped with LaBelle Discs gets a workout.

Here's more from Jim: "I worked 300 acres last year, and there's no sign of disc wear—no nicks—they're as good as new. If I set my disc, she'll set right in to the arbor bolt. When I have to buy disc blades, they'll be LaBelle again."

Thanks, Jim. Users of LaBelle Discs have been telling us this for more than 70 years. That's because Crucible's integrated steel operation enables us to build quality and durability right in; our own craftsmen make the steel that goes into *every* "slow-tempered" LaBelle Disc.

Look for the triangular trade mark of LaBelle, your mark of quality, available for every disc harrow or plow ever made; for your kind of farming.

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AGRICULTURAL STEELS

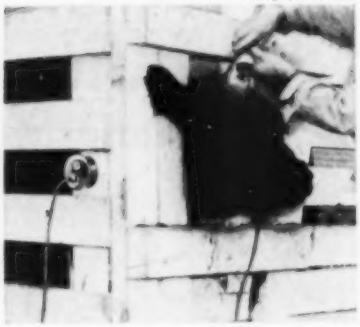
CRUCIBLE STEEL COMPANY OF AMERICA
OLIVER BUILDING, PITTSBURGH, PA.

STAINLESS • REX HIGH SPEED • TOOL • ALLOY
MACHINERY • SPECIAL PURPOSE STEELS

Successful shortcuts

Build them yourself, save time and dollars

Photograph: McVicker

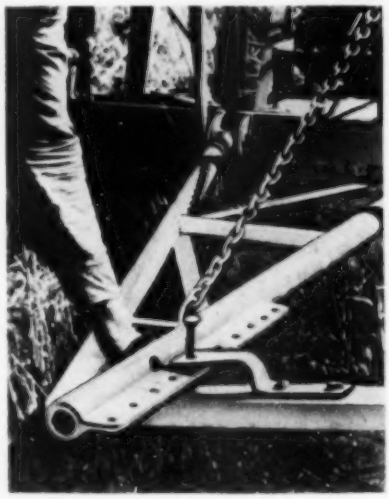


Electric outlet mounted on the loading and holding chute saves time for Harvey Cornwell, Haywood, Virginia. Outlet is handy for an unloading light or for running the electric clipper

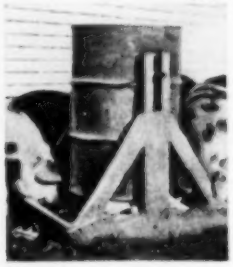
Wettach

Tire tool was built by Clifford Cruzen, Mahaska County, Iowa. A long handle provides the needed leverage. Sliding hook was made from an endgate rod and fits into the hub boltholes

Wettach



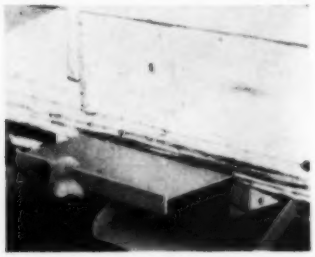
Spooner



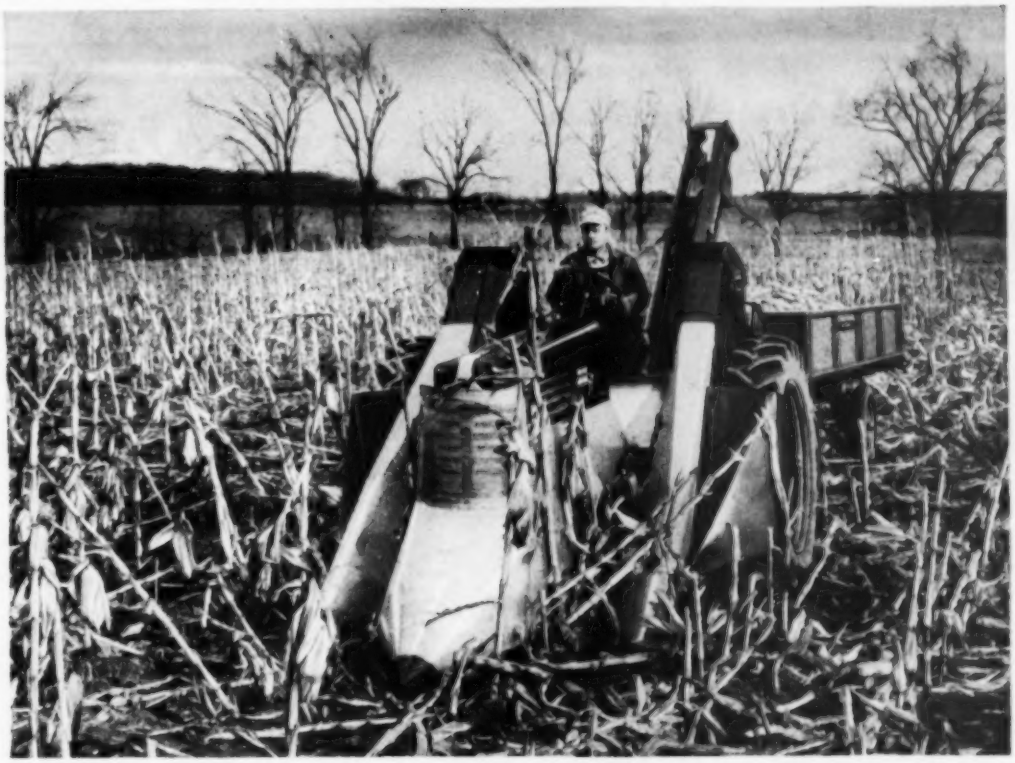
Self-feeder was made from an old oil drum by Harvey Price, Toulon, Illinois. Bottom trough is 3' square and 6" deep. Corners are braced with angle iron

Adjustable hitch has holes punched at spaced distances to allow for variations in width of rows. Art Hucachek, West Liberty, Iowa, uses it on cornpicker

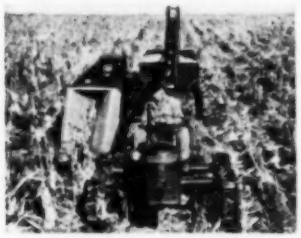
Miller



Horizontal dump was built by J. Lawrence Presler, Van Wert County, Ohio. To dump load, the pin is removed and the slide is lowered. Grain flows through hole in the bottom of wagon. When not in use, slide folds neatly up under the bed of wagon



Oliver Model 4 Tractor-Mounted Two-Row Picker



PREFER THE PULL-TYPE? Above is the Oliver Model 5, single row, available as a picker-husker or picker-snapper. Below is the Model 2 two-row picker-husker. All have the Oliver features that "get the extra ears when the ears are hard to get."

Soft Fields? Down Corn? LET'S GO!

These are the times you really appreciate your Oliver Corn Picker. The days when your fields are soft and traction is poor . . . when your stalks have been tangled by rain or toppled by wind or by borers . . . and *still* your Oliver picks them clean! Here is how it's done—

Better Traction. Unlike other tractor-mounted pickers, this high-capacity Oliver Model 4 is balanced *over the rear axle*. There is no overweight ahead to bog down the front wheels. Handling is easier, turns are shorter.

Down-Corn Saver. Wide, floating shields follow the contour of the row, nose under down stalks. Gathering chains and snapping-roll extension points work *right down to the ground*. Yet all bearings are well above the dirt.

Cleaner Husking. Combination steel and rubber rolls strip large ears and small with equal thoroughness. They're more than a match for stubborn husks—yet gentle enough for seed corn.

Fewer Delays. Mount this picker on an Oliver Tractor and you'll make short work of overloads. Because *then* you can use the *Direct Drive Power Take-Off*. Step on the clutch . . . your tractor stops, your picker keeps working . . . you don't have to shift and reshift with every jam.

Before you buy any corn picker, see what a *real* one can do—see your Oliver Dealer! The Oliver Corporation, 400 West Madison Street, Chicago 6, Ill.

The Oliver Corporation F 5-8
400 West Madison Street, Chicago 6, Illinois

Please send the illustrated booklets checked:

- ☐ Model 4 Tractor-Mounted Picker
- ☐ Model 5 Pull-Type One-Row Picker
- ☐ Model 2 Pull-Type Two-Row Picker

Name.....

Address.....

City.....State.....

OLIVER

"FINEST IN FARM MACHINERY"

Mr. and Mrs. A. J. Porter *are the kind of folks you'd like to have as neighbors. They own 287½ acres, are firm believers in building up the soil, and of course are genuinely interested in producing more profitable livestock and poultry. Married 25 years, they've raised two children and now the big interest in their lives are two lovely grandchildren.*

"118% Profit on Our Feed in 5 Winter Months—with MoorMan's"

say Mr. and Mrs. A. J. Porter

"We know that our grains, with the help of MoorMan's concentrates, produce more eggs. We've fed this way for 4 years," say Mr. and Mrs. A. J. Porter of Faribault County, Minn.

"Our 163 hens made $308.14 profit in the five winter months, Nov. 1, 1951 to April 1, 1952, although we averaged only 57½ cents a dozen for eggs. They were started May 1 on MoorMan's Chick Mintrate and our own corn, and we changed to MoorMan's Poultry Mintrate 40 and our own grains when we penned up the pullets. The hens were housed Nov. 1.

"Here's how *we figure our exact feed costs for the five months: Home-grown grain—1,624 lbs. corn, $49.30 and 3,952 lbs. oats, $110.70. Total value, home-grown grain, $160.00.*

"Ingredients we bought: *800 lbs. MoorMan's Poultry Mintrate 40, $81.75 and 500 lbs. oyster shell and grits, $7.25. Charge for grinding and mixing, $12.00. Total out-of-pocket expense, $101.00.*

"The 163 pullets (average) laid 18,326 eggs—1,527⅙ dozen—for an average production of 73.8%. Our egg money was $570.14. This, less $261.00 total feed costs left us a profit of $309.14—or $1.89 for each hen.

"The low out-of-pocket costs of each bag of laying mash we made with MoorMan's is mighty important. We fed 6,576 lbs. of mash—almost 64, 100-lb. bags. As we had to dig for only $101.00 (for Poultry Mintrate, oyster shell and grits, and grinding and mixing costs), we figure we 'bought' our laying mash for only $1.58 a bag!"

If your feed costs are too high—or your egg production is too low—switch to MoorMan's Poultry Mintrate 40 now. You save because you buy only proteins, minerals and vitamins to help your grains give you peak egg production. And you get more eggs because no other concentrate helps hens utilize rich, egg-making power of your grain so completely. Ask your MoorMan Man how you can save if you switch to MoorMan's now. If no MoorMan Man calls, write Moorman Mfg. Co., Dept. R-28, Quincy, Ill.

MoorMan's

(Since 1885)

MAKERS OF PROTEIN AND MINERAL CONCENTRATES FARMERS NEED, BUT CANNOT RAISE OR PROCESS ON THE FARM

Continuous weight gain in cattle

From page 42

how much feed growing animals need and when they need it. In order to find out more about this problem quickly and economically, about two years ago we started to use identical-twin beef calves in some of our growth and feeding studies. These studies were carried on at the U.S.D.A. Animal Husbandry Experiment Station at Beltsville, Maryland.

Geneticists say as much experimental evidence can be obtained from a pair of identical-twin beef animals as with a herd of 40 ordinary animals. Here's why:

When born, each identical-twin beef calf has inherited exactly the same characteristics as the other. So, if one animal of a pair is treated one way, and the other another way, differences between the two are due only to the different treatments. Differences due to *inheritance* are completely ruled out.

The six pairs of identical beef twins used in our experiments were purchased during the first year of work on the "continuous-growth" problem.

This matter of feeding cattle so they are always gaining weight has been a question among stockmen for years. Can cattle get by without much feed for long periods and then make up for it by heavy feeding? Or, must they be fed for a gradual, but steady, rate of gain? These are two of the questions we wanted to look into, and for good reasons.

Cattle on poor range or pasture may gain no weight at all for a period of time. When this happens—especially in young animals—cattle lose their efficiency of production. Often, the cattle never do recover; or, if they do, the cost of their recovery in feed is very high.

In our twin-beef-calf experiments, we have been concerned with the effects of limited calorie, *or energy, intake only. Our experimental animals were given everything they needed—protein, minerals, and vitamins—for health and rapid growth, with the exception of enough energy in the feed.* Range cattle, or cattle on poor pasture, usually suffer from the lack of protein, minerals, and some vitamins.

We set up the experiment on this basis because the energy requirement is the most expensive one for farmers to meet. Protein, mineral, and carotene requirements can usually be met with a smaller cash outlay.

In our experiment, one member of each of our six pairs of identical twins was given a ration that contained 75, 62, or 50 percent of the amount of energy that would permit rapid growth. The ration was fed during the period from 6 months to a year or more of age. The other member of the pair was used as a control animal and given—in addition to the feed received by its twin—as much feed rich in energy as it could use.

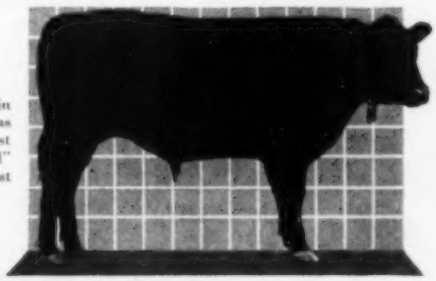
Careful records were kept of feed consumption, and chemical analyses were made of samples of all the feed used. The animals were weighed each week, and physical measurements and photographs were taken at regular intervals.

The answers we got to some of the feeding questions in this test were not always what you might expect. For example, the experimental calves placed on *the lowest energy ration*—a ration that barely maintained body weight—not only survived six months of this treatment *but came through in good health.*

The animals given the 62-percent ration gained ½ pound a day. Those given the 75-percent allowance gained about a

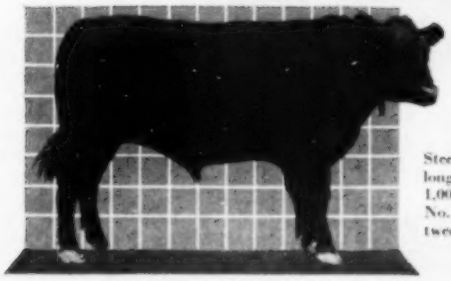
[*Turn to page 74*

Comparison of animals at slaughter weight of 1,000 pounds



No. 2

Steer No. 2 is identical twin of Steer No. 1. This steer was full-fed throughout the test and served as the "control" animal in the feeding test



No. 1

Steer No. 1 needed two months longer than No. 2 to reach 1,000 pounds. However, Steer No. 1 gained no weight between 6 and 12 months of age

"Great...but you should see the new rooms at the SHERMAN in Chicago"

1,500 NEW ROOMS...
smartly restyled...
brilliantly designed...
1,500 reasons why
you should think
of the SHERMAN when
you think of Chicago.
Most convenient location.
A drive-in garage!
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CHICAGO'S WORLD FAMOUS RESTAURANTS
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World Famous Hotel
THE SHERMAN Chicago

Frank W. Boring, Board Chairman • James A. Hart, Pres.
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BOOSTS PRODUCTION 3 WAYS . . .

- **SHARPENS BIRDS' APPETITES** — as only whey nutrients can. Makes birds *want* to eat more mash and grain. Perks up their appetites when they start to lag on a dry mash diet.
- **IMPROVES FLOCK CONDITION.** Provides important milk proteins, vitamins and minerals from whey and whey products. Helps keep birds active and vigorous — helps ward off disease set-backs. Tones up your birds so they can get more out of their mash and grain.
- **NUTRITIOUS.** Packed with growth properties for which milk nutrients are famous. Helps build big, well-developed pullets and heavy, meaty broilers. Helps laying hens produce more eggs . . . at less cost.

Write to Appleton for Free Folder B-8

Gives "Milk-Fed" Results

Peebles'
FREE CHOICE FEED
WESTERN CONDENSING COMPANY
Appleton, Wis., and San Francisco, Calif.

Raise big, husky calves on Peebles' CALK-KIT—the ideal Milk Replacement.

For friendly help with your building, furnishing or decorating problems, visit the store nearest you offering **Successful Farming's** home planning service. Stores are listed on page 89.

MY OLD FARMALL HAS 9 SPEEDS FORWARD!

M and W adds these field speeds 6, 7½, 9, 11 mph

9 speeds forward, 2 reverse with an M and W transmission! Saves you up to 3 hours a day by doing many jobs faster. Saves on fuel too. Eliminates clashing in road gear. Assures positive forced lubrication to pilot bearing. Unit entirely inside transmission case. Thousands in use. Installed by your local dealer.

WRITE FOR FREE BOOKLET TODAY!
For faster service please include name of your tractor dealer.

M and W GEAR CO.
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TOPS IN SERVICE...ECONOMY AND EASE OF OPERATION

THE **HUMBOLDT LOADER**
The Lowest Priced QUALITY LOADER on the Market

A NATIONWIDE FAVORITE

The Humboldt can't be beat for rugged dependability, trouble-free operation and labor saving economy.

Full Line of Attachments

The **HUMBOLDT LOADER** is **EASY** to **INSTALL** . . . **EASY** to **OPERATE**. Really puts the load up, out and over. Has powerful twin hydraulic high pressure cylinders. No rubber, no sidewing, nothing above the tractor. Guaranteed workmanship and materials. See your dealer or write for new FREE literature and low prices.

Silbaugh MFG. CO.
Humboldt, Iowa

Continuous weight gain in cattle

From page 73

pound of weight daily during the time they received the limited ration. After the period of restricted feeding ended, it was necessary to increase the feed slowly.

After a readjustment period of from several days to three or four weeks, these animals consumed their feed readily and began to grow rapidly. With a single exception, all the poorly fed animals reached the slaughter weight of 1,000 pounds three months, or less, after their well-fed twins.

This may mean that farmers can afford to feed less energy feeds for a period of time and then make up for slower gains by heavier feeding later. An example would be to winter cattle on as little harvested feed as possible and then get them on good pasture early in the spring. However, protein, mineral, and vitamin allowances must be adequate even though the calorie allowance may be low.

These encouraging results would mean little if restricted feeding had resulted in uneconomical gains. However, the economy of weight gain of the animals that had been on restricted rations compared favorably with the economy of gain of the normal controls. The amount of feed required by the poorly fed animals to reach 1,000 pounds was only 2 percent more than that required by their well-fed twins to attain the same body weight.

In some cases, it was the poorly fed rather than the well-fed member of the pair that required the least amount of feed. After the period of restricted feeding, the animals that had been poorly fed made remarkably economical gains.

This raised a question as to whether or not quality of carcasses and meat was as good after the animals had been on restricted rations as it would have been if the cattle had always been well fed.

After the animals had been slaughtered, we found that the dressing percentages were *about the same* whether or not a member of a twin pair had been able to grow continuously. It was found to be a fact that carcass grades of the animals that had been poorly fed were *about the same* as those of their well-fed twins.

Very careful studies of meat *quality* of the identical-twin steers were made by the United States Bureau of Animal Industry meat specialists.

Expert judges of *flavor and quality* of meat found very little difference between the meat of two members of the twin pairs. When they did find a small difference—as often as not the meat of the animal that had been on the restricted ration *was judged superior!*

We still have a long way to go before the end of our research on continuous growth will be in sight. But we are convinced that our experiments with identical-twin beef animals are showing us how a great deal of the loss that has always accompanied interrupted growth of cattle can be avoided. **END**

Laughing at Life

"Fellow citizens," said the candidate, "I have fought against the Indians. I have often had no bed but the battlefield, and no canopy but the sky. I have marched over frozen ground until every step along the way has been marked with blood."

His story told well, until a dubious voter came to the front.

"Did you say you fought for the Union? And against the Indians? And you slept on the ground with only the sky for a cover? And your feet bled in marching over frozen ground?"

"That's right!" cried the candidate.

"Then I'll be darned if you haven't done enough for your country," came back the voter. "Go home and rest. I'll vote for the other fellow."

• • • • • • • • • • • • • • • • • •

The Error of Our Ways

(Culls From the News Columns)

Select Clientele

We serve the best heals in town.—*From a restaurant advertisement in an Illinois paper.*

Jump Tunes?

Enjoy an evening of scared music.—*Church advertisement, St. Petersburg (Florida) Independent.*

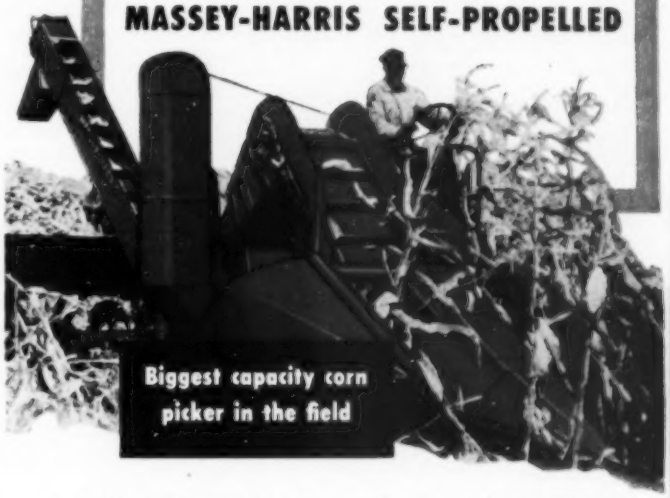
Spooks Entertained

Twin daughters, Margaret and Margy G., were ghosts of honor at a party given for them by their mother.—*South Macomb (Michigan) News.*

SUCCESSFUL FARMING

"What kind of a pet do you have in mind?"

Wet fields won't stop you WITH A MASSEY-HARRIS SELF-PROPELLED



Corn picking is no longer at the mercy of the weather! It is the experience of operators that Massey-Harris Self-Propelled Pickers keep going in wet fields that stop other pickers.

Custom operators report they can often *double* their harvested acreage with a Massey-Harris Self-Propelled over any other picker they have ever used. Think what that means in increasing your profits . . . in saving corn from bad weather . . . increasing your harvested yields . . . in getting your big job of corn harvesting done before cold, freezing weather and heavy snows set in.

There are many other advantages of owning a Massey-Harris Self-Propelled Picker:

- It's a complete corn picking unit. Hook on a wagon and you're ready to go the minute your corn is ready.
- Your tractor is free to pull in loads . . . cut stalks . . . disc . . . or do other fall jobs.
- You sit up high where you can see the rows, hit every stalk squarely. And you're out of the thick dust and dirt, away from moving parts, in a safe, comfortable position with all controls within instant reach.
- You have positive, accurate steering — easier work on contours and hillsides . . . plenty of clearance for crossing shallow ditches, etc. Open the fields anywhere — no hand picking.

But most important, you do a better job of picking. With its big husking capacity, you do cleaner work.

Talk to your Massey-Harris dealer. Get all the facts. For a catalog by mail, use the coupon below.

"WE'D STARVE FOLLOWING THAT PICKER!"

Make it a Massey-Harris

THE MASSEY-HARRIS COMPANY, Quality Ave., Dept. H-110, Racine, Wis.

Please send me a copy of your latest catalog on the Massey-Harris Self-Propelled Corn Picker.

Name .....

Town ..... R.F.D. .....

County ..... State .....

MAIL THIS COUPON

Here's how *for home painters*

Get rid of fresh paint smells—overnight! Just pour a teaspoonful of ammonia into a large bowl of water. Set the bowl in the center of the fresh-painted room. Next morning the smell will be gone. Of course, you can save yourself *all* this trouble by using Devoe Wonder Tones—the only rubber base wall paint in both flat finish for walls and semi-gloss for woodwork. Wonder Tones *leave no painty smell*, dry in 20 minutes.

Clean-up trick for roller coater tray! No one likes the messy business of cleaning up after a paint job. So, before you start, line bottom of paint tray with two layers of newspaper. Then bend over edges and tape them down. If you use a pail, line it with a treated garbage pail bag. When painting's done, just throw papers away. Containers are as clean as when you started.

Preventing paint skin—a two-edged trick! When a partly used can of paint is stored, a skin will form on the paint surface—*no matter how tightly you seal the lid!* To prevent this, float a little turpentine on *top* of the paint. Pour just enough to cover surface. When you're ready to paint again, surface paint can be stirred in as thinner.

A tip for painting drawer knobs! Before you start painting, screw the knobs part way into a piece of cardboard—like the top of a shoe box. You can hold the knob steady while painting—and it will sit still while drying. The perfect enamel for that knob, by the way, is Devoe Mirrolac—comes in many bright colors.

You can get all the painting accessories that you need—and many more helpful tips at the sign of the Devoe Diamond. Why not stop in and see your Devoe Dealer very soon? You'll find his name listed *in the Classified section of your Phone Book.*

DEVOE PAINT

Less work, more profits with milk tanks

From page 47

the milking machine into the tank cooler. Where a pipe-line system is used, the milk isn't poured at all and no spilling can take place.

3. With a bulk cooling tank, the dairyman gets more milk storage space in a smaller amount of floor space.

4. Milk cooled in a bulk cooler is of very high quality because the rapid cooling prevents bacteria growth.

5. Tank coolers are usually built of stainless steel. The tanks are highly polished, easily cleaned, and will last a long time.

6. Selling milk from a tank cooler lets the dairyman receive full value for the milk. *The farmer is paid for the amount in the tank at the time of pickup—not the amount delivered to the creamery or processor.*

7. When milk is held in a tank, there is no loss of butterfat due to the fat's sticking to cans and covers. The built-in agitator prevents butterfat from sticking to the sides of the tank.

8. On bulk milk routes with every-other-day pickup, considerable money is saved in hauling costs. Hauling costs may be lowered on everyday pickup after the route is well established.

9. The dairyman has the opportunity to keep a check on butterfat test. He can take a sample at the same time the truck driver does.

10. Tank coolers make it easier to use hired labor. There is less work to do because the milk is handled less and there are no cans to lift.

11. Most farmers with tank coolers say there is a considerable saving in electricity used for cooling.

12. Tank coolers make it possible for older farmers or handicapped farmers to stay in the dairy business. The work load is much lighter.

From the farmer's standpoint, it appears that bulk milk handling is all to his advantage. And farmers who have bulk milk coolers agree. But there are important advantages to the creamery or processor also:

1. The creamery or processor is more certain of a regular supply of *quality milk*.

2. When farmers have bulk cooling tanks in their milkhouses, receiving-room equipment at the plant may not be necessary in some cases.

3. When the milk is cooled below 40 degrees at the farm, it requires no further cooling at the plant.

4. Getting rid of the milk can helps the creamery or processor, also, because no can washer is needed at the plant.

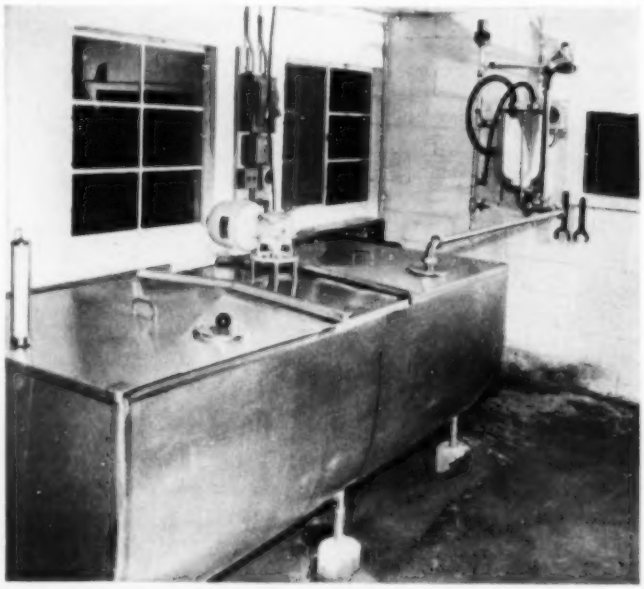
5. If all milk is picked up on a bulk route every two days, the processor can shut down operations every other day and save operating costs.

There's one *big advantage* to the consumer—that's a *quality* product.

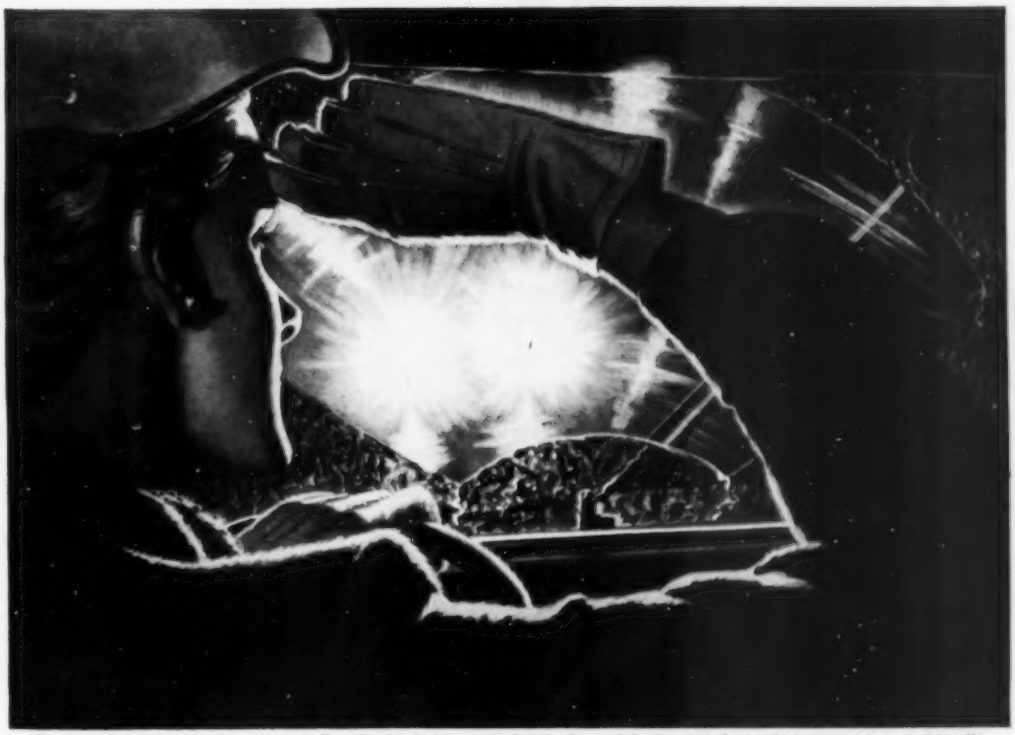
Because bulk milk handling at the farm and plant is still so new here in the Midwest, all the advantages of the system may not be fully realized as yet. And, it's possible that disadvantages may occur.

For instance, while an area is being converted from cans to tanks, a dealer might have to be equipped to receive milk from the farm by both methods. Another disadvantage could be that one bad tank of milk at the farm would ruin

[*Turn to page 78*



Pipe-line milking system is ideal for use with a bulk milk cooler. With a pipe-line system, the milk flows directly from the cow to the bulk milk cooler. This tank, on the Alex Young farm, North Liberty, Iowa, will hold about 400 gallons of milk



Dim your lights! *Sixty per cent of all traffic fatalities occur after dusk . . . defective and glaring lights contribute to this toll!*

How much do reckless drivers add to your auto insurance bill?

THE cost of insuring a careful driver is low. The cost of insuring a reckless driver is high. When the two are averaged together into a "standard rate," the careful driver is actually helping to pay for the reckless driving of others.

But not if you are insured with State Farm Mutual. For State Farm aims to insure *only* careful drivers. This means that the reckless drivers in your area—not eligible for State Farm membership—do not have to be considered in setting State Farm rates.

If your own careful driving entitles you to State Farm's low-cost, "careful driver" insurance, it will pay you to see your State Farm agent. Look up "State Farm" in your classified phone book.

Other benefits of State Farm membership

1. *Semi-annual premium payments.* Wouldn't it be easier on your budget to pay for your automobile insurance in two small payments each year, rather than in one lump sum? Advanced State Farm billing and bookkeeping practices make this possible for State Farm members—at no increase in cost.

2. *Mutual benefits.* State Farm is a mutual company. Savings from low claim costs and high operating efficiency are passed on to members, who actually own the company, in the form of lower insurance rates. On the other hand, State Farm policies are nonassessable. You never pay more than the established rate for any period.

3. *Fast, fair claim settlement.* More than 6,500 State Farm agents and claim representatives stand ready, day or night, to come to your aid in case of accident. State Farm cuts red tape—pays an average of one claim every 12 seconds, every working day.

4. *Established leadership.* State Farm now writes more full-coverage automobile insurance than any other company, with more than 2,000,000 members in the auto company alone. And new applications for State Farm insurance are coming in on an average of 2,000 every working day!

Look to State Farm for Life and Fire Insurance, too. See your agent!

State Farm Insurance Companies

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Home office: Bloomington, Illinois • *Branch offices:* Berkeley, California • St. Paul, Minnesota Lincoln, Nebraska • Marshall, Michigan • Dallas, Texas • Charlottesville, Virginia • Toronto, Ontario. • Field claim offices in more than 170 principal cities.

Hear "Cecil Brown News Commentaries," Saturdays and Sundays over Mutual Broadcasting System stations.

"I always see to it—we keep fresh Purolators in our tractors!"

9 of 10 tractors are factory-equipped with Purolator

● A tractor breakdown can cost a lot more than the repair bill alone—in lost time—in delayed harvesting, plowing, or cultivating. That's why it's so important to keep a fresh Purolator* Oil Filter on the job. It traps abrasive grit and destructive sludge out of the oil stream . . . keeps them from damaging costly engine parts.

Keep a good stock of Purolator Micronic* Refills on hand for frequent, regular filter changes. Purolator's accordion-pleated, plastic-impregnated refill gives up to 10 times more filtering area . . . traps dirt you can't even see. *Reg. U. S. Pat. Off.

P.S. Put fresh Purolator Refills into your trucks and cars regularly, too. It's low-cost "insurance" against expensive engine repairs.

PurOlator

(ENGINEERED FOR EVERY MAKE OF TRACTOR, TRUCK AND CAR)

Micronic OIL FILTER

Milk tanks

From page 76

the entire tank-truck load. When cans are used, a bad can of milk can be rejected without affecting the quality of other cans.

Probably the biggest stumbling block to most farmers interested in bulk milk handling is the initial cost of the tank cooler. However, farmers who have the tanks won't agree that this is a disadvantage. They say that although the initial cost is high, it's soon paid back in labor saved, better-quality milk, and higher prices.

I visited with farmers and processors on two Midwestern bulk milk routes. The River Falls Cooperative Creamery, River Falls, Wisconsin, and Swaner's Dairy, Iowa City, Iowa, both receive part of their milk from farmers with bulk cooling tanks.

Ed Walker, dairyman and president of the River Falls Creamery Board, installed a tank cooler last December. His 150-gallon tank cost him about $1,000. That sounds like a good-sized chunk of money to cool milk from 21 cows, but Ed puts it this way: "If I bought an ordinary can cooler plus two sets of cans, it would cost me about as much. With the tank cooler, I don't need cans, and I certainly don't miss the work that went with them."

Ed has had bacteria counts well below 1,000 from milk cooled in his bulk cooler. There are about 30 farmers in the River Falls, Wisconsin, area with tank milk coolers. And more dairymen in the area are going into tank cooling.

"The tank cooler with on-the-farm pickup was just what we needed in this area," Ed said. "We had a number of farmers in the community who wanted to produce Grade A milk. However, our creamery had no Grade A intake facilities. When we heard about this bulk milk handling business, we looked over the possibilities pretty carefully.

"The decision to try the bulk milk idea was strictly a farmers' decision. Enough farmers offered to put in tank coolers, so we went ahead and ordered the tanks, bought two bulk pickup trucks, and we were in business. The creamery helped some farmers with the initial cost of the cooler.

"In our present setup, the trucks pick up the milk every day. Most of the milk goes to the Twin Cities market. It's surprising how far the trucks can haul the milk without reducing its quality. In one case, one of our trucks finished picking up the milk on the route at noon. The milk

[*Turn to page 80*

The latter part of a wise man's life is taken up in curing the follies, prejudices, and false opinions he had contracted in the former.

—*Swift*

Want to get on the Bandwagon?

As you can see—it's handsome. And ever since Buick pioneered the Riviera, folks have taken it to their hearts.

It's a two-door, six-passenger Buick, with the sleek lines of a convertible, and the protection of a solid steel top.

So far this year it leads the field in popularity among all cars building these "hard tops"—regardless of price.

And when it comes to price—you will find out this: What you pay for a SPECIAL, a SUPER or a ROADMASTER RIVIERA will shine by comparison with the price tag of anything in their fields.

So you know what we mean when we ask, "Want to get on the bandwagon?"

But there's more to it than that. You also are getting on the bandwagon when you buy any Buick—because, once more, Buick is the most popular car in America at its price or above.

And no wonder. When you look at the line-up of all-star features you get in a Buick, it's easy to understand why.

There's Buick's famous Fireball 8 Engine—Buick's Million Dollar Ride—Buick's exclusive Dynaflow Drive*—Buick's Power Steering**—Buick room, Buick comfort, Buick style—and Buick durability.

Certainly—if you're thinking of buying a car—your first stop should be at your Buick dealer's.

BUICK *Division of* GENERAL MOTORS

*Equipment, accessories, trim and models are subject to change without notice. *Standard on Roadmaster, optional at extra cost on other Series. **Optional at extra cost on Roadmaster and Super only.*

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When better automobiles are built
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will build them

Check your choice of these SILENTITE WINDOW Styles

It's no trick to open your home to the beauty of outdoors when you choose Curtis Silentite wood windows. Several styles are available to meet every architectural taste. Silentite opens easily in all kinds of weather—doesn't stick.

"America's most weathertight window"—that's what many home owners call the Curtis Silentite. It has a new, patented kind of weather stripping that bars out drafts and dust—and cuts down your fuel bills, too.

With Silentite casements, beauty is as beauty does—and these wood Silentite casements are famous for their weathertight construction—their easy operation—their streamlined beauty. You can have a choice of several sash styles and arrangements.

This window idea book will help you choose—when you build or remodel

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Curtis Companies Service Bureau
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Please send free *Silentite* window booklet.

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Milk tanks

From page 78

in the truck at the end of the pickup route registered about 35 degrees. The next morning the milk was in Des Moines, Iowa, about 325 miles from River Falls, and the temperature was only up to 40 degrees.

"This type of handling makes far better-quality milk, there's no doubt about that. Now, any dairyman in this community who wants to produce Grade A milk can do so. Bulk milk handling saved us the expense of building a Grade A intake at the creamery. But we can still produce Grade A milk in this community and get the higher prices that go with it," Ed Walker concluded.

"I figure I can pay for my tank cooler in six months," said John Williams, who lives 2 miles from Ed Walker's farm. "I paid about $1,300 for my 230-gallon tank. Putting in the tank let me produce about 1,300 pounds of Grade A milk a day. I'm making about $5.85 more per day for my Grade A milk than I did for Grade B. It doesn't take long for that amount to begin paying off."

John milks about 32 cows, but since putting in the tank he thinks he can handle more than that without much extra work. "Every type of farming seems to be getting more and more specialized," John said. "I figured that if I wanted to stay in the dairy business, I had better produce the best milk possible. The tank cooler lets me do just that."

None of the farmers on the River Falls bulk milk route has a pipe-line milking system. However, several think their labor might be reduced still further if they had a pipe-line system.

Many of the dairymen on the bulk milk route around Iowa City, Iowa, have pipe-line milking systems. With this system, the dairyman never carries the milk. Milk goes directly from the milking machine to the bulk tank in the milkhouse. Stainless-steel or plastic pipes carry the milk.

"I'm milking 50 cows, but I could increase my herd by 20 and still not do much more work," said Alex Young, North Liberty, Iowa. "With this pipe-line system and the bulk milk cooler, the only thing left for me to do is put the milker on the cows. Of course, I have to keep the equipment clean. But the tank is easier to wash than milk cans, and the pipe line doesn't take a great deal of cleaning time," Alex concluded.

Dairyman Young has a 400-gallon tank. It cost him about $3,000, but all the dairymen who have bought the tanks say they are worth whatever they cost. The tanks in the Iowa City area run somewhat larger than those used around River Falls, Wisconsin. The reason for this is that the tank truck picks up the milk every other day at Iowa City instead of every day as at River Falls. Farmers in the Iowa City area are saving about 10 cents on hauling charges for every 100 pounds of milk as a

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SCHWARTZ MFG. CO., Two Rivers, Wis.
AMERICA'S FOREMOST MANUFACTURER OF FILTERING AIDS FOR DAIRYMEN

result of every-other-day pickup rather than everyday pickup.

One point that all these dairymen emphasized is this: *You don't have to be a big producer to afford a bulk milk tank cooler.* At least one farmer has only 14 cows and says his cooler is paying off. Around River Falls, some farmers thought 20 cows would easily justify a tank cooler.

As far as dairymen are concerned, bulk milk handling is a profitable step forward for the dairy industry. And, at the other end of the milk business—the processor's—the outlook is just as good.

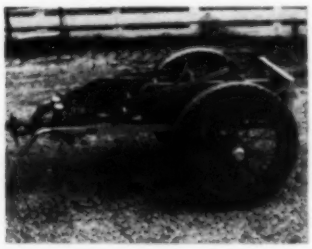
O. R. Wilkins, manager of the River Falls Cooperative Creamery, is as enthusiastic as the farmers about bulk milk handling. "The big advantage as far as the processor and consumer are concerned is in quality. The milk picked up from bulk tanks on the farm is of excellent quality when it reaches the processor," said Wilkins.

At Iowa City, Jim Swaner, manager of Swaner's Dairy, agrees with Wilkins on the advantages to the processor and consumer of bulk milk handling. "We also wanted our producers to reduce their unit cost," Swaner said, "and bulk milk handling seems to be the best way of doing it. Also, if all our milk suppliers had tanks, we could eliminate most of the equipment in our receiving room."

If the enthusiasm shown by farmers who already have bulk tank coolers is an indication, we'll be seeing more and more bulk milk routes springing up in the Midwest. After all, a system that benefits the dairyman, the processor, and the consumer is a pretty difficult system to beat. At the moment, it appears to be the most encouraging development to hit the dairy industry since the milking machine. **END**

Portable welder

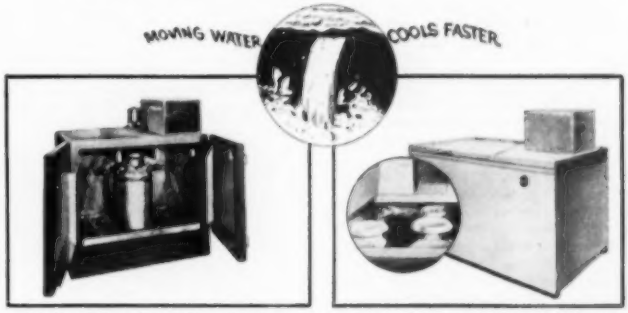
When Albert McGee of Adams County, Indiana, needs a welding job, his delay is held to a minimum. He has his own welding outfit mounted on a homemade cart. A hitch on his welding cart enables him to hitch it to the tractor or car. If he has a break in a farm tool while in the field, he takes the welding equipment to the field where repairs are made right on the job. —*S. M. S., Indiana.*



CAN YOU AFFORD TO GAMBLE YOUR MILK CHECKS AGAINST

• Summer heat places a heavy overload on your old milk cooler . . . makes it work twice as hard. The cooler that did the job for you last winter may not be able to see you through another hot summer. Don't gamble your milk checks against the failure of an old, inefficient cooler . . . because Old Man Sun will be working against you.

These days, every dollar of profit counts. Play safe with a new De Laval Speedway "Front-Loader" or "Immersion" Cooler—the sure way to beat "summer heat overload." See your local De Laval dealer today.



• De Laval Speedway "Front-Loader"—cools by automatically spraying icy water over necks and sides of the cans.

• De Laval "Immersion" Type Milk Cooler circulates 70-80 gallons of icy cold water around the cans each minute.

P.S. If your present cabinet is in good condition, a De Laval Speedway "Drop In" unit will restore it to new efficiency.

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Please send me complete information on:
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Fiery cracks between the toes?
Look tonight!

Examine the skin between your toes tonight. When open cracks like this appear it means that Athlete's Foot can strike.

Absorbine Jr. helps inhibit growth of all the infecting Athlete's Foot fungi it can reach.

ATHLETE'S FOOT calls for FAST ACTION

Athlete's Foot can be serious—but Absorbine Jr. takes care of your misery, *fast*

• When hot summertime footwork causes feet to perspire and tiny cracks to appear between the toes, Athlete's Foot fungi can get you in torment, even "lay you up."

So don't take chances—get quick relief with Absorbine Jr., the No. 1 Athlete's Foot preparation!

Absorbine Jr. kills all the fungi of Athlete's Foot it can contact. It helps heal open cracks and prevent reinfection. But be sure to get after Athlete's Foot before it becomes serious.

Get Absorbine Jr. today. At all drug counters. W. F. YOUNG, INC., Springfield, Mass.

Get after Athlete's Foot symptoms early! That's the time Absorbine Jr. helps clear them up fastest. Then you'll have a supply to take care of muscular aches and pains, minor sunburn, nonpoisonous insect bites.

Guaranteed by Good Housekeeping

SOOTHING, REFRESHING

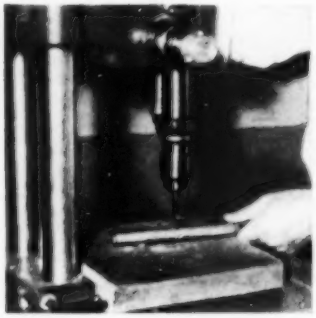
ABSORBINE JR.

America's original relief for Athlete's Foot . . . and the *favorite* today!

How to make an electric motor portable

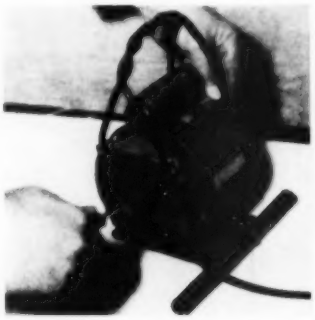
Here's an easy way to have electric power where you want it. All you need are a few bolts, wire, and a piece of pipe. A ½-hp motor will handle many jobs—if the motor is portable

By Omer Dye



1. Mark holes on pipe to correspond with motor slots, then drill holes. The holes should admit square part of carriage bolt

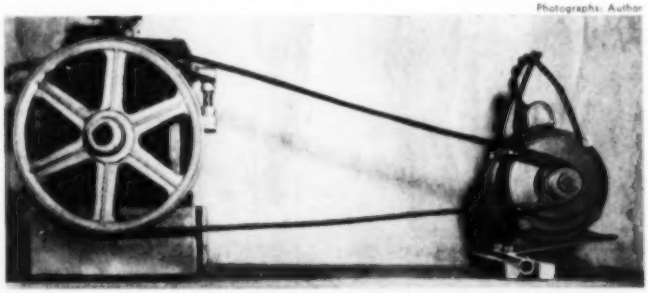
2. Slip a lock washer over the bolts before putting on the nuts, then tighten securely. Bolt the pipe near outside of the mount



3. A short piece of No. 12 weatherproof wire makes a good handle for the portable motor. Fasten wire to the housing bolts

4. To use motor, nail two slats to a base for use as a sliding mount. Rail on the motor should fit snugly between the slats

Photographs: Author



5. The motor will work better if the "pull" of the motor is on the lower half of the belt. Make sure that the slats are far enough apart so that motor can pivot freely. END

How to grow better tomorrows

The personal experiences of thousands of farmers prove that Practical Land Use assures better tomorrows. Some of these farmers have been able to increase their cash incomes by large amounts. Others have doubled and tripled the crop yields, or reduced feed costs. Still others have secured additional advantages. Equally important, they have all improved their farms for themselves and for future generations.

Chances are you can do the same things that some of these farmers have done, without extra cost or labor. Ask your Red Brand fence dealer to help you get the facts about Practical Land Use.

Everyone gains—When a majority of the farmers in a community increase their incomes and security, everyone in the community is better off. The merchants enjoy more business and can serve the needs of the community more satisfactorily. The schools, churches, hospitals, and public institutions are better able to meet the needs of the community. Yes, the entire community benefits when more farmers follow Practical Land Use plans.

Red Brand dealers—Red Brand fence dealers, in many communities, are promoting Practical Land Use. They are "community-minded" citizens. And they are good business men. They know that anything that is good for the farmers is good for the community . . . is good for business in the community, and is therefore good for their business, too. So, ask your Red Brand dealer to help you get the facts about Practical Land Use. It costs you nothing to get the facts and it may mean more money coming in for less work . . . may help you grow better tomorrows.

A new booklet, **WILLING ACRES**, explains what would happen if you said, "I'd like a Practical Land Use plan for my farm." It illustrates different plans, indicates how much more can be produced on each acre, and how the entire farm can be improved at the same time. Ask your Red Brand dealer to show you this interesting booklet. If he does not have a supply, write us.

LOOK for the fence with the Red top-wire. SEE your Red Brand dealer for that long-lasting, GALVANNEALED RED BRAND fence and those easy-to-set RED TOP steel posts.

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Also makers of Keystone poultry netting, Non-Climbable fence, Nails, Bale ties, Gates, and Keymesh reinforcing for stucco and cement.

Pickled Beets

Ice-water Pickles

Bread-and-butter Pickles

Old-time pickle favorites

Dill Dandies

There's nothing quite like crisp, juicy pickles to add that final touch to a meal or snack

Probably almost all of us have fond memories of Mom or Grandma dipping out crisp, green pickles from the sparkling depths of her pickle crock in the cellar. No pickles ever received quite such lavish care or tasted quite as good to a youngster as these.

Here are old-fashioned pickle favorites for every taste: sweet, dill, bread-and-butter, watermelon, beet, and carrot—as good as Grandma's.

Be sure you store your pickles in a cool place, as too-warm storage will make them soft. Brine or vinegar that is boiled until it loses its strength will also make pickles soften. You should store pickles at least two months before you serve them.

Pickled Beets

Makes 2 pints

Wash **1 pound beets**
Remove tops; cook until tender.
Drain and save cooking liquid.
Remove skins, roots, slice.
Combine **½ cup beet liquid**
2 cups white vinegar
½ cup sugar
1 teaspoon salt
Add **3 tablespoons pickling spices** tied in cheesecloth bag
Bring to boil; add beets and
1½ medium onions, sliced
Boil for 5 minutes; remove spices.
Pack hot into sterilized jars; fill to ¼ inch from top.
Seal jars immediately.

Ice-water Pickles

Makes 3 pints

Wash **1½ pounds medium cucumbers**
Slice cucumbers crosswise.
Soak in ice water for 3 hours.
Drain; pack in 3 sterilized pint jars.
Add **3 small whole onions**
½ teaspoon mustard seed
celery stalk to each jar
Combine and bring to boil:
3 cups cider vinegar
¼ cup salt
¾ cup sugar
Pour over cucumbers; seal at once.

—*Mrs. Earl Bloom, Iowa*

Dill Dandies

Makes 3 quarts

Wash **24 large cucumbers**
Cover with cold water; let stand overnight in cool place.
Pack in 3 sterilized quart jars; leave room for seasonings.
Add to each jar:
⅛ teaspoon powdered alum
1 clove garlic
2 heads fresh dill
strip of hot red pepper
Combine and bring to boil:
2 cups cider vinegar
½ cup coarse salt
6 cups water
Fill jars with hot solution.
Top each with a clean fresh **grape leaf** for color
Seal immediately.
Store in cool place for 6 weeks before using.

—*Sadie G. Lasley, Missouri*

Bread-and-butter Pickles

Makes 2 quarts

Sprinkle **½ cup salt** over
25 medium cucumbers, sliced
12 onions, sliced
Cover with ice water.
Soak for 3 hours; drain.
Combine and heat to boiling:
1 quart cider vinegar
2 cups sugar
2 teaspoons mustard seed
2 teaspoons turmeric
2 teaspoons celery seed
2 teaspoons cassia buds
Add cucumbers and onions.
Heat for 2 minutes but do not boil.
Fill sterilized glass jars; seal.

—*Lilly V. Larsen, Illinois*

More on page 86

LOWEST PRICED IN ITS FIELD!

This beautiful new Styleline De Luxe 4-Door Sedan—like so many other Chevrolet body types—lists for less than any comparable model in its field! (Continuation of standard equipment and trim illustrated is dependent on availability of material.)

All the room and comfort you want!

The new 1952 Chevrolet is a big and beautiful car in every way. Its solid and substantial Body by Fisher gives you all the hip-room, elbow-room and shoulder-room you need for real comfort.

It *rides* like a big car. Long trips are easy with new Quick-Reflex shock absorber action that cradles you over bumps, smooths the ride. And the big 58¾" rear tread, widest in Chevrolet's field, gives you extra steadiness on the road.

Smoother engine performance is another thing that adds to your comfort. New engine mountings "*screen out*" vibration . . . make power so smooth you'd hardly know the engine's in the car.

With all its extra advantages, Chevrolet is economical to buy and own. Lowest-priced line in its field. Low upkeep cost. Traditionally higher resale value. See your Chevrolet dealer. Chevrolet Division of General Motors, Detroit 2, Michigan.

Big, Wide Seats with Fine Upholstery

Inside, your Chevrolet looks like the most costly cars. Interior trim as well as upholstery on the big, wide seats is color-matched to harmonize with exterior colors (De Luxe Sedans and Coupes).

Widest Tread in its Field for Steady Riding

Chevrolet's extra-wide rear tread gives road-hugging steadiness on the straightaway and curves. You enjoy, too, the handling ease of Center-Point Steering . . . reduces turning effort and road shock.

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Chevrolet's exclusive unitized Knee-Action sets the standard for comfort in the low-price field. Now the ride is softer and smoother than ever with new Quick-Reflex shock absorber action.

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NU-STYLE Kitchen Cabinets

Charming cabinets to brighten your kitchen! Efficient and convenient in every sense of the word...the latest in modern kitchen cabinets! Add sparkling, gay and appealing colors to their satin-smooth Ponderosa Pine surface, or finish natural with a wide selection of beautiful stains. Bilt-Well Cabinets are made in sectional units, graduated in sizes to fit any shape or size kitchen. Add color to your living with Bilt-Well Cabinets—the cabinets that harmonize with streamlined home appliances.

CARR, ADAMS & COLLIER CO. Dubuque, Iowa

Build Well with BILT-WELL WOOD WORK

Pickle favorites

From page 84

Pickled Dill Carrots
Makes 3 pints

Wash, scrape, remove tops from
30 small carrots
Cook until tender; drain.
Combine 2 cups water
1⅓ cups sugar
⅔ cup white vinegar
Add . . . . . **4 teaspoons pickling spices**
tied in cheesecloth bag
Bring vinegar mixture to boiling.
Pour over carrots.
Simmer 3 minutes.
Pack in sterilized jars.
Add . . . . . **spray of dill** to each jar
Seal immediately.
—*Mrs. Jerome Hjelmstad, North Dakota*

Watermelon Pickles
Makes 5 pints

Select thick rind from a firm, not overripe, **watermelon**
Trim off green skin and pink flesh.
Weigh . . . **3 pounds prepared rind**
Cut in pieces.
Soak for 1 hour in
limewater (2 quarts water plus 1 tablespoon calcium oxide from drugstore)
Drain and cover with fresh water.
Cook for 2 hours or until tender.
Add more water as needed; drain.
Place . . . **2 tablespoons whole allspice**
2 tablespoons whole cloves
10 2-inch pieces stick cinnamon in a cheesecloth bag

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MAILBOX MARKERS

Reflector lettering—glass beads mirror light at night (like road signs)
Permanent embossed letters and numbers 1½" high
Lifetime aluminum—rustproof
Baked enamel—white beaded letters—black background
Double plate 18" long—reads the same from either side

These attractive markers make thoughtful gifts — and make it easy for friends to find your home DAY-n-NIGHT. Install in a minute. Any wording you want, up to a total of 15 letters and numbers. PLEASE PRINT CLEARLY.

C.O.D. if desired—Your postage refund. Canada members add 75 cents.

Quantity discounts to clubs, church groups, etc. for resale. Write for details.

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UP TO $100 IN A MONTH
JUST FOR WEARING
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Ladies—get beautiful dresses **without paying a single penny!** And—make up to $100 in a month just by wearing and showing them to your friends! Choice of 150 glorious models given to you as a bonus. No obligation—no canvassing—no experience. Just our way of **advertising.** Everything sent **FREE.** Send your name, address and dress size on postcard. Hurry! Openings limited. **FASHION FROCKS, INC., Studio K-2822, Cincinnati 25, Ohio.**

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ORIGINAL "Type F" Pump has 1,000 proof "sound-save" house, garden, farm. Pumps 400 G.P.H. 30 ft. lift (1PH 25 ft. lift) or 1,000 G.P.H. from 25' well. Use any ½ to ½ HP motor. 1" intake, 1" outlet. Complete with hose, foot valve.

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Also Gear Pumps in all sizes.

LABAWCO PUMPS $6.95
Belle Mead 33, N. J.

Successful Farming is your guide to better farm living.

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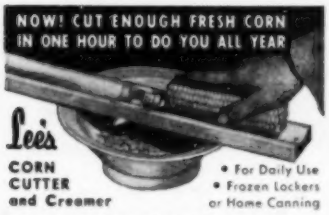

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Put spice bag in kettle with
1 quart cider vinegar
1 quart water
4 pounds sugar
Bring to boiling; add rind.
Boil gently for 2 hours.
Soak overnight in syrup; remove spices.
Bring to boiling for 1 minute.
Pack rind in clean, hot, sterilized jars.
Fill jars with liquid; seal.

Million-dollar Pickles

Makes 4 quarts

Slice . . . . **4 quarts medium cucumbers**
1 quart medium onions
2 to **4 green peppers**
Soak in . . . **⅔ cup salt**
2½ quarts water overnight
Drain brine from cucumbers.
Combine **4 cups sugar**
4 cups cider vinegar
4 teaspoons turmeric
4 teaspoons mustard seed
4 teaspoons celery seed
2 pimientos, chopped
Bring to boil; pour over cucumbers.
Simmer for 2 minutes.
Pack into sterilized jars; seal.

—*Mrs. H. A. Rasmussen, Iowa*

Sweet Pickles

Makes 6 pints

Wash . . . . **3 pounds small cucumbers**
Place in crock.
Add . . . . **1 cup coarse salt** to
7 cups water
Pour salt brine over cucumbers.
Let stand 7 days.
Wash and drain; place in kettle.
Add . . . . **1 cup cider vinegar** and
water to cover
Add . . . . **1½ teaspoons alum**
Simmer for 2 hours; pour off liquid.
Split cucumbers in half.
Heat . . . . **6 cups white vinegar** with
6 cups sugar
1½ teaspoon allspice
small stick cinnamon
Pour hot syrup over cucumbers.
Let stand overnight.
Drain and boil syrup again.
Pour over cucumbers.
Let stand overnight; drain.
Boil syrup.
Pour over cucumbers in sterilized jars.
Seal immediately.

—*Mrs. Herbert Trare, Illinois*

Crisp Cucumber Chips

Makes 2 pints

Slice . . . . **6 unpeeled cucumbers**
(about 6 inches long)
2 medium onions
Add . . . . **2 tablespoons salt**
Let stand for 1 hour.
Rinse quickly with water and drain.
Combine and bring to boil:
2 cups cider vinegar
½ teaspoon turmeric
1½ teaspoons mustard seed
1½ teaspoons celery seed
1½ teaspoons ginger
Add cucumbers and onions.
Boil for 4 minutes.
Pack in sterilized jars; seal.

—*Miss Jane Morgan, Oklahoma*

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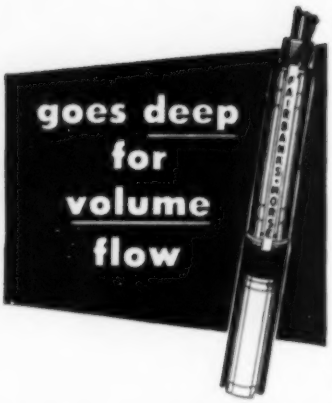

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Poultry pointers

Air-sac-infection study. A two-year research program on a respiratory disease of poultry, known as "air-sac infection," was announced recently by the United States Department of Agriculture. The project will be conducted by U.S.D.A. and cooperating states, with most of the work carried out in the various states.

Air-sac infection has appeared in almost all poultry sections of the country, increasing noticeably since the winter of 1950-51. Greatest losses have been suffered along the Eastern Seaboard, and it is expected that research projects will be started first in this area.

The disease attacks the respiratory tract of poultry, with marked effect upon the air sacs. Outward symptoms vary considerably, but infected birds frequently show a nasal discharge, have watery eyes, and seem dull and sleepy. Mortality in some flocks has run as high as 30 to 50 percent. Birds that survive may recover in about three weeks or may continue to show symptoms of the disease indefinitely.

Keep layers confined. Poultrymen cooperating in the pullorum-eradication program in Nebraska have shown the value of keeping their laying hens confined to the poultry house and providing clean range and summer shelter. This program, says J. H. Claybaugh, extension poultryman, Nebraska Experiment Station, has kept flocks free of pullorum on farms where infection formerly existed. In a number of cases, laying hens became infected with pullorum a few weeks after they were turned out into the farmyard.

Keeping laying flocks confined, says Claybaugh, not only is a health protective measure, but enables farmers to produce clean eggs of a uniform quality.

Overmedication can cause trouble. Many poultrymen are inclined to medicate and even overmedicate birds, say Dr. P. P. Levine of the Cornell Veterinary College.

Putting such compounds as sulfaquinoxaline, nitrophenide, nitrofurazone, and sulfamethazine in drinking water to control coccidiosis has a serious disadvantage. Water intake varies widely, depending upon the temperature. On very hot days, birds are likely to drink twice as much water as on cool days. Under these circumstances overmedication is likely to occur.

Many of the anticoccidia compounds are marketed either to be mixed in the dry feed or placed in the drinking water. To make certain that their birds get the medication, some poultrymen place the drug in both the feed and drinking water. Under these conditions, veterinarians have encountered numerous instances of poisoning resulting from overmedication with the sulfa compounds.

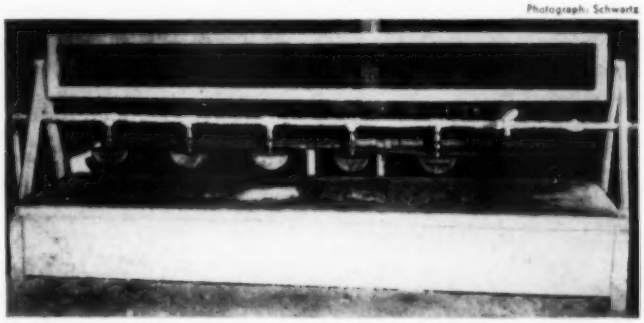
Mixing the drug with feed seems to be the best method of medication. Feed consumption does not vary widely, and drug consumption proceeds at a normal rate.

Don't forget to vaccinate. There are three respiratory diseases for which there are specific vaccinations—chicken pox, laryngotracheitis, and Newcastle. The best time to vaccinate pullets is during warm summer months before they start laying and after they are 4 to 6 weeks of age.

In most cases, it would be wise for the flockowner to have a veterinarian or poultry serviceman do the vaccinating unless the flockowner is experienced in handling vaccines.

There's no point in vaccinating for a disease which is not present in your area. However, both Newcastle and chicken pox are quite widespread and each year more poultrymen are finding it necessary to vaccinate their birds. Remember, vaccination is a preventive, not a curative agent.

Photograph: Schwartz



Keeping litter dry around the drinking fountains is not a problem for Albert McGee, Adams County, Indiana. The five automatic waterers are placed in a row over a 2½-foot-wide box covered with wire netting. The hens must jump onto the box to drink. Any spilled water falls into the incline which leads to the drain

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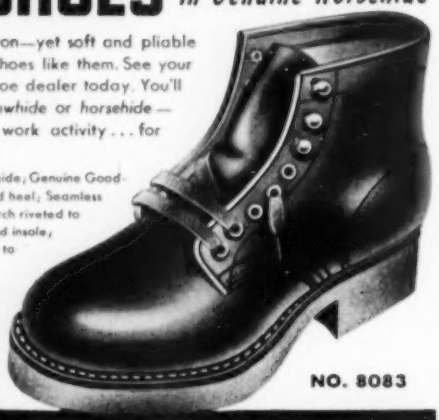

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How to buy a boar

From page 43

of the boar's producing more uniform pigs if his litter mates are also good hogs.

2. Be absolutely certain to select a boar from a brucellosis-free herd. Many a hog producer has suffered heavy losses by using a boar infected with brucellosis. An unbalanced testicle condition may be a sign of an infected animal. Boars may also be carriers and spreaders of other diseases such as rhinitis and enteritis, as well as troubles such as mange mites and lice. Purebred breeders have a heavy responsibility in avoiding the spread of these troubles through the sale of infected boars.

3. Most market-hog producers have a pretty good idea of what constitutes a good type of boar. Look for a boar of good width, length, depth, and balance of body. It's not always easy to find the exact type of boar you want, but you'll be money ahead in the long run if you don't settle for a mediocre boar.

The sad situation confronting lard has caused many hog producers to seek what is called a meat-type boar. This is a boar

> **It takes two to speak the truth—one to speak, and another to hear.** —*Thoreau*

that is firm and hard in his fleshing and not inclined to be soft and lardy. Good conformation is important *regardless of the type of boar you buy.*

4. Select a boar that shows his masculinity by his appearance and his walk. He should have a "he-boar" appearance, as breeders often speak of a boar. Good judges often come to a decision between two boars by the way the boar walks.

5. Prepotency, or the ability to reproduce, is shown by ruggedness about the head and face. A feminine face is out of place on a boar. The eyes should be bright, large, and set well apart. A long, narrow face is usually associated with a narrowness of body and lack of stamina. On the other hand, a short stubby head and face, by breed standards, are usually linked with lack of scale.

6. Boars which are rugged-looking may show a tendency to coarseness. Coarseness through the shoulders, or roughness of fleshing, should be avoided in a boar. Trimness of body is desirable. The bones should be strong in appearance as indicated by size. A heavy, coarse bone is objectionable.

7. Purebred breeders place much emphasis upon the feet and legs of the boar. Boars which are knock-kneed in front or cow-hocked behind are usually weak boars. They will not stand up under heavy service. Insist upon straight, strong legs, set out under the four corners of the body. The pasterns should be short and straight with the toes of the feet carried close together.

8. Large, well-developed testicles indicate boar strength and masculinity. In recent years, swine producers have been

putting a great deal of emphasis upon the rudimentary teats of the boar. Some buyers insist the boar show six well-developed teats on each side of his belly.

There is plenty of evidence that boars with inverted teats have inherited this condition from their dams. They will pass this condition on to the gilts they sire. Don't buy boars which have come from litters where inverted teats are evident.

Boars from small litters may produce as big a litter as a boar from a large litter. The loss in using a boar from a small litter, however, shows up in the gilts he sires. These gilts, when bred, may produce small litters. In other words, the small-litter tendency skips one generation before showing up again. If boars are selected from good-sized litters, it is fairly evident the dam was a good mother.

9. Boars should be bought at least a month or more before needed for service. The boar you buy may be too thin or too fat. If you get the boar at least a month before you breed your sows, you'll have time to put the boar in the right condition for breeding.

10. Boars should be given a lot for exercise. Too often they are stuck in a small pen or horse stall in the barn and left there until ready for use. Such boars may be poor workers, at least at the beginning of the breeding season. It is always good practice to try the boar on a few commercial gilts before breeding your good sows. This way you can see if the boar is a good worker.

11. When you buy your boar, consider your sow herd. Select the kind of boar which will best nick with your sows.

Recently, I saw two different lots of gilts. The first bunch were long, and shallow of body. They lacked strong constitution. The owner complained that his hogs had not gained well enough to suit him. He realized he had gotten plenty of length in his gilts. What he needed was a boar which would thicken his hogs.

> **Women's styles change, but their *designs* remain the same.** —*Oscar Wilde*

The other lot of gilts were the reverse of the first bunch. These gilts were short and chunky. The owner of these gilts had bought two purebred boars to use on them. These boars were short, low-down, fine-boned animals. They were definitely not the type of boars to use on these particular gilts.

Farmers who sell boars will have more satisfied customers if they'll do what they can to see that the buyer gets the boar which will do him the most good. Extremes in type must be avoided. No matter whether the gilts are short or long, the boar selected should have balance. He should have good stretch of body, plus a comparable depth, and good spring of rib.

When you buy your boar this year, remember the points mentioned in this article. Don't forget, a good boar is *half* the herd. A poor boar may ruin your *entire* pig crop. **END**

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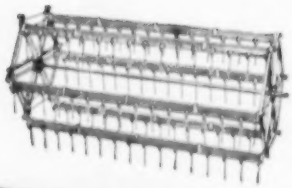

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Livestock

More mutton from wool breeds

For 150 years the backbone of the fine-wool sheep industry has centered in southeastern Ohio. But Ohio sheep numbers have dropped from 6½ million to 1 million head. At the same time, the Merino breeders have lost out to competition from sheepmen who marketed both lambs and wool.

Don Bell, in charge of sheep research at the Ohio Experiment Station, was ready for this turn of events. For a number of years he has been conducting crossbreeding trials. The purebred Merino ewe has been the basis of the trials. The experiments tested 11 different types of ewes and 34 different types of market lambs. Merino ewes bred to Columbia rams have been found to produce the best first cross so far. These ewes shear a good fleece of high quality and, when bred to a large mutton-type ram, produce a good lamb crop.

Here's how it works. Sheepmen who still have foundation stock of purebred Merinos can breed their Merino ewes to purebred Columbia rams to produce first-cross lambs. However, it will still be necessary for them to breed part of the flock to Merino rams to keep the pure crossing stock intact.

Stockmen who buy the first-cross ewes will breed them to Suffolk rams to produce the best lambs possible. The ewes milk so well that a lot of the three-breed lambs can be sold fat off grass if the pasture quality is high. Twin lambs can be kept longer, fed out on some grain, and hit the quality lamb market.

The Ohio station tests show that these Merino-Columbia ewes shear an average of 14.02 pounds of half-blood wool, while producing a 150-percent lamb crop. They have weaned an average of 103 pounds of lamb per ewe bred.—*D. E. G., Ohio.*

New treatment for wounds

A new treatment, called EQ335, has been developed by the United States Department of Agriculture for wounds from castrating, dehorning, and branding. It also is the most effective screwworm remedy for infested sheep, says George Strum, North Dakota extension livestock specialist. It is superior to Smear 62 in several ways: (1) It will not deteriorate upon standing, (2) tests show 1 application of EQ335 usually lasts for 7 days, and (3) wounds treated with the new remedy heal quickly.

Formula for EQ335, by weight, is as follows: 3 parts lindane, 35 parts pine oil, 42 parts white mineral oil, 10 parts of an emulsifier, and 10 parts of silica jel.

Rye pasture lowers feed costs

Basil Slagle, Brown County, Illinois, figures that 6 acres of rye pasture saved him $540 in feed costs in 5 months last fall and winter. Last August 1, Slagle plowed up a field of red clover and 2 weeks later seeded 2 bushels of Balboa rye per acre on the 6 acres. On September 10, he put 20 gilts in the pasture. A month later, he took the gilts off the pasture and replaced them with 20 sows which stayed there 2 weeks. From then until December 1, there were 165 head of fall shoats on the pasture. Then the shoats were removed, and 17 gilts with 115 pigs were put on. Up to February 10, they still had a lot of green feed, and Slagle figured the rye pasture would hold up until his ladino clover was ready.—*R. V. C., Illinois.*

Does it pay to grind feed?

Livestock feeders are always faced with the question of whether it pays to grind feed. C. C. Culbertson, livestock nutritionist at Iowa State College, says it all depends on the situation.

Corn is usually the grain which is most in question. It seldom pays to grind corn for hogs unless it's to be fed as part of a mixed ration, in which case it makes mixing easier. Corn should be ground before it is fed to baby pigs. Medium fine to coarse grinding is best.

Many livestock raisers like feeding ground ear corn to their breeding stock to add bulk to their ration. Culbertson says this keeps down excess gains, but alfalfa is better for supplying the bulk. Grain fed to fattening cattle should be coarsely ground unless there are hogs following the cattle. Sheep, as a rule, can handle the whole grain quite easily, as can the younger dairy calves. Grinding is recommended for dairy cows and older calves.

Concerning the question of chopping the hay before feeding, Culbertson says it usually doesn't pay. It adds nothing to the nutritional value of the hay. However, if chopped hay is to be fed, it can be made more tempting to livestock by adding grain to the hay before feeding.

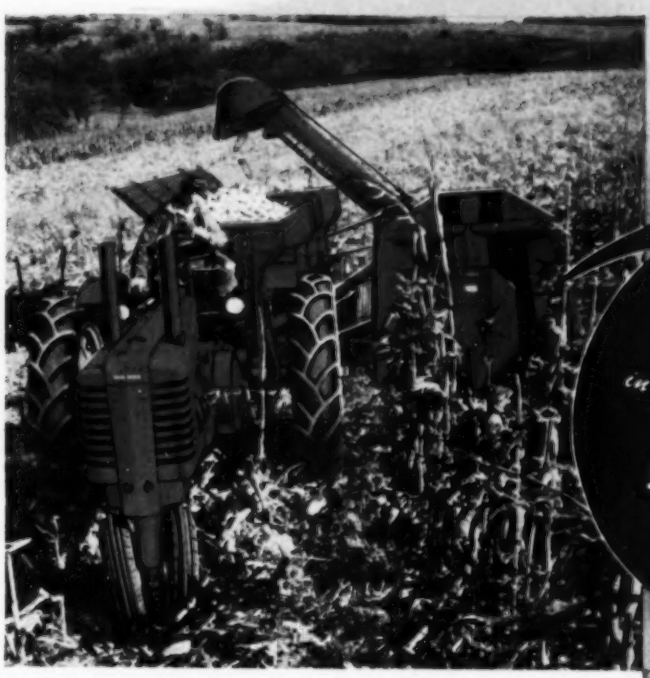
Heavy pig losses from edema

Watch your pigs closely for swollen eyelids, snouts, or lips. They may have pig edema.

Dr. P. D. Beamer, University of Illinois College of Veterinary Medicine, says pig edema is a new disease to most swine raisers. So far it has caused only scattered outbreaks, but it's fast becoming a serious problem in some swine-producing states. The disease takes its highest toll in pigs 10 to 16 weeks old, according to Doctor Beamer. Animals seem to be most susceptible if they have been recently brought onto the farm, have had a change of diet, or have just been weaned. Affected pigs lose their appetite and can't control their body movements properly. Paralysis and convulsions often precede death, which may occur within 12 hours after the first symptoms appear.

Doctor Beamer says farmers should report all suspicious cases to their local veterinarians immediately. END

Improve *Your* "Fielding" Average



Above: The lightweight John Deere No. 200 Two-Row, Pull-Type Picker—the *only* successful picker in contoured corn.

Above: The wheel- and drawbar-mounted John Deere No. 101 One-Row Picker offers exceptional stability.

Above: The big-capacity John Deere No. 226 Two-Row Mounted Picker—the practical self-propelled.

Most corn pickers do a good job under *perfect* picking conditions but when the going gets tough their "fielding" gets sloppy. John Deere Corn Pickers have the ability to come through in the "clutches"—the ability to do a better "fielding" job, saving more corn in down-and-tangled crops . . . in wet, slippery field conditions . . . in corn borer infested fields . . . and in dry, brittle crops. That's why a John Deere Picker brings you extra bushels every year in good years or bad.

Low-down picking is a feature common to all John Deere Pickers. Long, gently-sloping gatherers with floating gatherer points, low-down, long-lugged gatherer chains running *below* the hinge point of the gatherers, and ground-hugging snapping roll points, trap and save more ears in every field condition. Big-capacity husking rolls assure cleaner corn.

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YOUR automatic baler will work smoother and tie better knots when you load it with U·S·S American Tie Wire. This wire was originally developed by American Steel and Wire and helped to make the automatic baler practical. It has just the right properties to assure trouble-free operation and uniform tight bales.

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KOSCH MFG. CO. Dept. 9 Columbus, Nebr.

Eggs

From page 44

Once the pullets are in the laying house, keep them there. The number of stained, dirty eggs can be reduced by keeping the hens confined, especially when the ground is wet and muddy. If the hens are allowed to range, keep them confined until 2 or 3 p.m., by which time most eggs will have been laid.

Sufficient nest space reduces the hen traffic through the nests, cutting down on cracked and dirty eggs. Provide 1 nest for each 5 hens. Or, if community nests are used, allow 1 square foot of nesting space for each 4 to 5 birds. Keep the nest litter clean and dry; change it often.

Another place hens get dirty feet is in the droppings pit. Enclosed pits keep the manure out of reach of the hens. Some poultrymen are using the no-roost plan, eliminating the need for roosts and droppings pits. About 8 inches of roosting space is needed for each hen. Space the roosts about 12 inches apart.

A well-fed hen will not only lay better, but the egg she lays will maintain its quality for a longer period. Oystershell and vitamin D are needed to build a strong shell, cutting down on the number of cracked eggs. Keep an ample supply of both oystershell and grit before the hens at all times. Feed each separately, free-choice. Provide one 4-foot automatic water fountain and 15 feet of feeder space for each 100 birds. Place waterers over roosts or tiled drains to prevent wetting litter. As feed affects yolk flavor and color, you can eliminate wide variations by confining the flock and feeding a balanced ration the year round. Also, excessive silage may cause unsightly yolk discoloration. Cottonseed meal in excess of 5 percent of the ration may cause discoloration of both yolk and albumen.

Wet litter is one of the biggest causes of dirty eggs. A deep, highly absorbent litter results in a drier house, warmer floor. If deep litter is used, start building it in late summer or early fall so there will be 8 or 10 inches by winter. Allow 3½ to 4 square feet of floor space for each bird. Good ventilation also is a must in keeping the laying house dry. A flock of 500 hens will give off 15 gallons of water per day. Sufficient air movement is necessary to carry off this moisture. Natural ventilation will do the job in a well-constructed laying house—forced-draft ventilation is needed in buildings with poor natural ventilation. In either case, the building should be well constructed.

Freshly laid eggs have a temperature of over 100 degrees. If left in a hot hen house over half a day, the egg will start losing freshness and moisture. The sooner the eggs are gathered after they're laid the better. Gather eggs at least three times a day, four times a day when the temperature is over 70 degrees. Use a wire basket to gather eggs, as the eggs will cool twice as fast as in a solid pail.

Take eggs to cooling room immediately

after gathering. Cool the eggs overnight in the wire baskets. Eggs require 12 hours to cool in a case, 5 hours in a wire basket. Some poultrymen are using small electric fans to speed up the cooling during summer months.

Allow eggs to cool overnight before packing. If the eggs aren't first cooled, the body heat has little chance to escape. Always pack in precooled cases. A warm, dry egg case can draw as much as 1 pound of moisture from the eggs in 48 hours with resulting loss of quality.

After the eggs are packed, keep them in a cool, moist egg room, basement, or cellar. Heat and dryness are the worst enemies of fresh eggs. An egg-room temperature of 45 to 60 degrees and humidity of 75 to 85 percent are essential to preserve high egg quality. A wet burlap sack on a wet floor, or a mechanical humidifier, will help keep the egg-holding room at the right temperature and humidity.

If a cellar or basement is used as an egg-holding room, keep the eggs away from such things as potatoes, kerosene, onions, and fruit. Eggs absorb odors readily, causing undesirable egg flavors.

Case all eggs with the big end up. The air cell is on this end, and if the eggs are packed in this manner, the air cell is less likely to break loose. A loose air cell lowers

> **One should never trust a woman who tells one her real age. A woman who would tell you that would tell anything.**
> —*Oscar Wilde*

the grade regardless of how fresh the egg is. Also, in packing, place extra-long or -large eggs in the corners or on the outer edge of the filler.

It's hard to maintain egg quality over three or four days, especially during the summer months. All other precautions are useless unless you get the eggs to market before they start losing quality. Deliver eggs to the receiving plant at least twice a week.

Don't try to slip a few checks and dirties in each case. You're only lowering the average price of all eggs. By grading the eggs at home, you can cull out most of the badly soiled, the checks, and small eggs. Keep them for home use.

Small spots of dirt can be removed by hand with a sandpaper brush or steel wool. If eggs are washed, be sure the water is warmer than the eggs. Cleaning eggs is a time-consuming chore—it's easier and more economical to produce clean eggs in the first place.

Here are the points to consider when planning a quality-egg program: First, find a receiver who buys on a graded basis. Then shoot for a large percentage of top-grade eggs. Good records tell you the reward for producing quality eggs. The drawings on pages 44 and 45 show how to get quality eggs. But remember, just one or two good practices won't do the job—we need them all. **END**

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Butler Stock Tanks

"Extra money? Yes sir! My Butler Tanks both save me money and make money. They provide plenty of clean water to keep my stock healthy. That way, I save on vet bills. Clean water helps appetites and that means faster weight gains.

"I'm sold on Butler Stock Tanks because they proved to me that they're sturdy, watertight and last longer."

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August

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PLUS-SERVICE is your best buy. In 6 colors as well as white.

Pequots are now packed in the new, sanitary, cellophane package—look for them at your favorite store.

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PEQUOT "PREMIUMCOMBED" Percale—200 combed threads to the inch, the true percale. Finest, smoothest, most even weave, beautifully finished. Woven, triple-tape selvages. In white and six lovely colors.

SALEM—130 threads to the inch. Our lightweight muslin, featuring excellent quality and popular price. In white and four colors.

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"The Nation Sleeps on PEQUOT SHEETS"

"Listen to the Paula Stone Show sponsored by Pequot, entire Mutual Broadcasting System, Tuesday and Thursday. Consult your local paper for time and station."

These frosty

Drawing: Miser

If you feel as we do about watery-tasting, insipid summertime beverages, you'll be pleasantly surprised when you taste these flavorful drinks.

Their only "kick" comes from herbs and spices, but we guarantee them all for a quick pickup on a hot day.

Some of these punches are festive enough for summer entertaining or even a wedding reception. The others are just the kind to sip under a shade tree when you take a breather during the day.

Here's a drink the youngsters will love. Make ice cubes from flavored summer-drink powder. Pour ginger ale over them for a colorful and tasty drink.

Spiced Cider

Makes 2 quarts

Heat together until sugar dissolves:
- **2 quarts sweet cider**
- **1¼ cups brown sugar**
- **5-inch stick of cinnamon**
- **¼ teaspoon salt**
- **1½ teaspoons whole cloves**
- **1½ teaspoons whole allspice**
- **½ teaspoon mace**

Cool and strain.
Chill and serve ice cold.

Ginger Julep

Makes 4½ cups

Combine
- **½ cup chopped preserved ginger**
- **½ cup sugar**
- **1 quart cold water**

Boil for 15 minutes.
Strain and cool.
Add . . . . . **½ cup lemon juice**
1 cup orange juice
Chill and serve ice cold.
Garnish with:
- **lemon slices**
- **maraschino cherries.**

—*Mrs. Arvin Soderling, Nebraska*

Party Fruit Punch

Makes 10 quarts

Combine
- **3 quarts unsweetened pineapple juice**
- **2 cups lemon juice**
- **3 cups orange juice**

drinks *make*

temperatures drop

1 cup lime juice
2 cups sugar
1 cup fresh mint leaves
Chill thoroughly.
Add just before serving:
4 quarts ginger ale
2 quarts soda water
1 pint sliced strawberries
Pour over ice in punch bowl.

Cranberry Punch

Makes 20 cups

Combine **3/4 cup sugar**
1/4 teaspoon salt
1/2 teaspoon cinnamon
1/2 teaspoon allspice
3/4 teaspoon ground cloves
1/4 teaspoon nutmeg
2 cups water
Stir over low heat until sugar is dissolved.
Cool and strain through cheesecloth.
Add . . . . . **1 quart cranberry juice**
Place . . . . **1 quart orange sherbet** in large bowl
Pour cooled liquid over sherbet.
Serve in punch glasses.

Spiced Fruit Punch

Makes 2 1/2 quarts

Add . . . . . **1 cup sugar** to **2 1/2 cups water**
Place in cloth bag:
7 whole cloves
1 stick cinnamon
1 teaspoon nutmeg
Add to sugar syrup.
Simmer for 5 minutes.
Add . . . . . **1 tablespoon honey**
Cool and remove spice bag.
Add . . . . . **2 tablespoons lemon peel**
3 cups chilled orange juice
1 1/2 cups chilled pineapple juice
3 pints chilled ginger ale
Pour over ice in glasses.
Garnish with **sprigs of mint**
Serve at once.

Tomato Juice Piquant

Makes 4 cups

Combine **4 cups tomato juice**
1/2 teaspoon salt
1/4 teaspoon celery seed
1/4 teaspoon paprika
1/4 teaspoon grated onion
1/2 teaspoon minced parsley
2 1-inch sticks cinnamon
3 whole cloves
1 1/2 teaspoons sugar
1 teaspoon basil
Pour into a jar, cover, and chill overnight.
Strain through a fine sieve.
Add . . . . **3 tablespoons lemon juice**
Serve ice cold.
Serve with **lemon wedges.**

—*Mrs. A. D. Trochinski, Minnesota*

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FOR MUSCULAR
PAIN

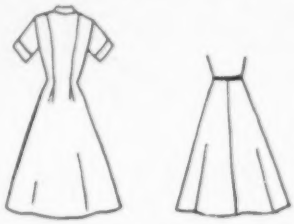
TAKE
BAYER ASPIRIN

for QUICK relief
FEEL BETTER FAST!

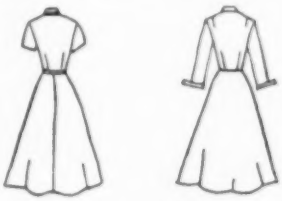
School-day special

From page 48

Advance Patterns 6028 and **6120** include a dressy cap-sleeve style. All three patterns are adaptable to lightweight wool, fine corduroy, wool or rayon suiting, flannel, cotton, or wool jersey.



6028. Princess dress in size 12 requires $4\frac{3}{4}$ yards of 35-inch material without nap. Petticoat in the same size needs $2\frac{1}{8}$ yards of 35-inch crinoline and $3\frac{5}{8}$ yards of bias-fold tape. Pattern comes in teen-age sizes 10 to 16. Coat, 35 cents.



6120. Dress needs 4 yards of 35-inch material without nap for size 14. Add $\frac{3}{8}$ yard if plaid fabric is used. Detachable contrasting collar requires $\frac{1}{4}$ yard of 35-inch material without nap. In sizes 12 to 20, pattern cost is 35 cents.

6119. Dress with self belt needs $4\frac{3}{8}$ yards of 39-inch material without nap in size 16. Skirt can be lined with 3 yards of 35-inch material if desired. Pattern is available in sizes 12 to 18 and costs 25 cents.

These three Advance Patterns are available from local dealers or may be purchased direct from Successful Farming *with the coupon below.*

To: Successful Farming,
4708 Meredith Building,
Des Moines 3, Iowa.

We enclose cash or money order in the amount of $ ..... for the following Advance Patterns:

☐ 6028 Size .....
☐ 6120 Size .....
☐ 6119 Size .....

Name .....

Address .....

City ..... State .....

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GENERAL PURPOSE BRUSH

Old, worn brushes are losing you time and money. New Oxco brushes will clean better and last longer. They're filled with the toughest-known natural fibres—American Palmetto and African Bass. The solid wood blocks are kiln-dried hardwood. And there's an Oxco brush for every cleaning job . . . for milk cans, vats and cooling coils; for dairy barn floors and gutters. So replace those old worn brushes with new Oxco brushes. Order them now from your dairy supply house or hardware store.

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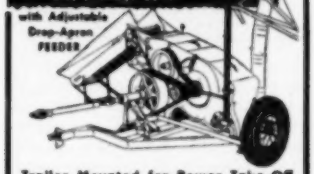

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It Has Saved Many A Crop Of Down Grain; Boosted Yields From All Standing Grain, Too."

From practically any small grain farmer who has equipped his combine with a *Cropsaver* Pick-Up Reel, such a comment is typical. Experience has shown him that this remarkable unit saves any crop, down and tangled by storm or heavy growth, that cannot be harvested with ordinary equipment . . . boosts yields from standing grain by preventing shattering and by gathering up stalks usually missed by common reels. In other words, it's *double* assurance that, regardless of weather, you can reap much bigger profits from every harvest.

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Interesting new brochure shows *Cropsaver* in action, illustrates superior design and construction, describes operation in detail, explains why so many farmers rightfully call this Pick-Up Reel *the best crop insurance they can buy*. Write for your copy today. It's FREE . . . and no obligation.

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Latest "know-how" in foods

Your market basket of new products, ideas, research

If you have leftover waffle batter, bake the extra batter into waffles and then keep them in the food freezer for a week or two. Thaw them in the toaster or oven and serve with butter or syrup. They make quick and delicious snacks.

The meat of tomorrow may have just about any flavor you could want. A new patented meat-packing discovery tenderizes and sets the flavor of the meat immediately after the animal or fowl is slaughtered. On a grass-fed steer, beef tallow is forced into the circulatory system under high pressure. The result is a piece of meat that tastes like choice, corn-fed sirloin. Butter injections have been used to tenderize fowl. Pork fat has been used on mutton to give it a delicate flavor and dim the "sheep" taste.

How long should you keep frozen foods? Freezing experts advise: Baked goods should be held in the food freezer no more than 3 months. After that there is loss of quality. Uncooked beef should be used up before 1 year; pork within 6 months; seasoned sausage within 3 months; poultry may be held for 9 to 12 months. Foods should not be refrozen.

If you tip the scales too far, remember that too many pounds come from taking in too many calories. By eating only 100 calories a day more than you need, you may gain as much as 10 pounds in 1 year! So watch that extra helping of dessert and between-meals snacks.

Latest word on frozen foods: These frozen foods were recently introduced nationally: beef and barbecue sauce, roast beef and gravy, roast liver and gravy, and a boneless rib roast of beef and gravy. All you have to do is heat these items before serving them ready to eat.

Keep lemons longer. The United States Department of Agriculture disclosed that the storage life of the lemon can be increased 2 to 4 weeks by wrapping it in moisture- vaporproof material. Keeps lemons from shriveling and losing weight. **END**

Kool-Aid
In the ICE BOX by the Pitcher Full

SAVES UP TO $2.00 A WEEK on Beverages!

BUY 6 Pkgs. and SAVE on Soft Drinks

You can't beat Kool-Aid soft drinks for refreshment, variety and real economy. Buy Six Packages and SAVE! Six packages of Kool-Aid make 12 quarts of delicious, cold beverage. Don't run out; when you get down to 2 packages, Buy Six and SAVE! Choice of 6 grand flavors. At 5¢ a package, think of the savings!

Makes 20 Frozen Suckers 5¢

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5¢ Pkg. Makes 2 Qts!

"That was the best hog-calling I ever heard, Jim. Now treat yourself to the best."

MAIL POUCH quality is in the tobacco. It isn't overloaded with sugary sweetness that tires your taste. That's why Mail Pouch Tobacco tastes better—lasts longer.

Decorating advice. Stores offering **Successful Farming's** home planning service are listed on page 89. Visit store nearest you for help with decorating problems.

"But why do I have to chop wood, Maw? Come winter, we'll all be wearing our WRIGHT'S HEALTH UNDERWEAR!"

Styles may come and styles may go, but for cold-weather comfort there's nothing like Wright's Health Underwear next to your skin. Since the Gay Nineties, Wright's union suits, shirts and drawers have been the favorites of outdoor men for trim, easy fit . . . extra-long wear. Get your Wright's Health Underwear *today!*

WRIGHT'S HEALTH UNDERWEAR CORPORATION, 345 BROADWAY, NEW YORK 13, N. Y.

Dairy

New, low-cost calf starter

A new, simplified calf starter, costing only $3.75 per hundredweight, has given good growth gains for about half the cost of raising calves with large amounts of whole milk. K. E. Gardner, University of Illinois dairyman, says, "It's the lowest-cost starter I know of."

Here is the formula: 50 pounds of shelled yellow corn, 20 pounds of oats, 27½ pounds of soybean oil meal (either expeller or solvent), 1½ pounds of steamed bonemeal, and 1 pound of salt. It provides 18 percent total protein. The mixture should be coarsely ground. The $3.75 cost for this starter includes cost of grinding, and the formula can easily be mixed on the farm.

In University of Illinois tests, this starter was fed to 53 dairy heifers of five different breeds. Their growth gains averaged from 108 to 134 percent of normal. These gains compared closely with those of 23 control calves getting a more expensive, complicated starter.

Calves first received the simplified starter at 2 weeks of age and were carried on it to 4 months of age. They ate it free-choice, up to 4½ pounds daily, with all the good-quality legume or legume-grass hay they wanted, plus water and salt. The calves averaged only 380 pounds of whole milk fed during an 8- or 10-week period. This is less than half the whole milk often fed, and the saving is about $20 per calf.

Portable calf pen

Bob McIntyre of Jefferson County, Wisconsin, constructed the portable calf pen (shown below) for easy moving around the dairy barn. The bottom is made of expanded metal for good drainage and easy cleaning. Heavy-duty casters on each corner permit moving of the pen. Three of the sides are solid and made of plyboard, with the one in back hinged

Photograph: Bailey

so it can be opened like a gate. The front of the pen is slatted for better ventilation.

The pen is particularly useful for isolating weak or sick calves, according to McIntyre, as it protects the calves against drafts. The pen also is very handy for use when calves are being taught to drink.—*J. W. B., Wisconsin.*

Reduces silo surface spoilage

A variety of materials is being tested by dairy specialists at the Illinois Experiment Station to cut down surface spoilage of corn silage. Several covered silos were used in the test. The surface of the silage in these different silos was covered with such materials as building paper, ground corncobs, oats, a layer of salt, or molasses.

A 10-inch layer of ground corncobs, wetted down four times after being applied, gave the best results. Spoilage amounted to only 700 pounds in a 16'x40' silo. A control silo with no material on top of the silage had 9,800 pounds of waste. The other materials used gave results ranging between these extremes of spoilage.

Hay and grain values compared

Here is a guide which will help you compare the costs of total digestible nutrients in hay and grain. The costs were figured by dairy nutrition specialists at Michigan State College. They show why hay rates so high as a cheap source of nutrients as compared to grain.

Hay		Grain	
Cost per ton	Cost per 100 lbs. T.D.N.	Cost per ton	Cost per 100 lbs. T.D.N.
$15	$1.50	$60	$4.00
20	2.00	65	4.33
25	2.50	70	4.67
30	3.00	75	5.00
35	3.50	80	5.33
40	4.00	85	5.67
45	4.50	90	6.00
50	5.00	95	6.33

Hay contains about 50 percent total digestible nutrients; grain averages about 75 percent. The dairy specialists point out that the values of the total digestible nutrients in hay and grain are equal so far as milk production is concerned if the ration is balanced.

The total digestible nutrients in grain almost always cost more than the same total digestible nutrients in hay. The specialists advise feeding all the roughage the dairy cow will eat. Then add enough grain to balance the ration, or for higher producers, add nutrients in more concentrated form.—*W. S., Michigan.*

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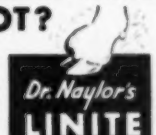

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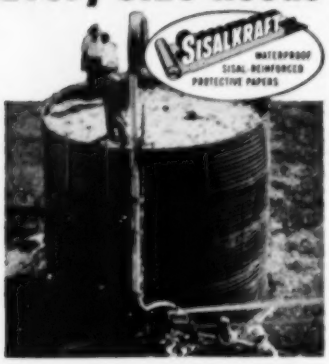

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DANUSER BLADE

How to tell

when a cow is in heat

It wasn't much of a job to tell when cows were in heat back in the days when almost every farmer kept a bull. However, the advance of artificial insemination has changed things. Now cattlemen have to depend on observation to determine when to call the inseminator.

Watch for "riding." A frequent sign is a tendency to "ride" other animals, especially when leaving the barn after being confined. A cow in heat will usually stand still while other animals "ride" her, while cows not in heat will "ride" but refuse to stand for other cows. This sign isn't completely reliable, for infection in the genital tract or cysts on the ovaries will sometimes cause the same symptoms.

Some isolate themselves. Occasionally a cow in heat will pay no attention to other animals in the herd. Instead, she may run or hurry up and down a fence as though looking for a way out. She may bawl occasionally and stretch her head over the fence. A great many owners make it a daily habit to watch cows right after they're turned out of the barn.

Confined cows are restless. Cows which are kept alone or confined most of the time during the winter sometimes show other signs of being in heat. They may appear restless, switch their tails, and constantly turn their heads from side to side trying to keep an eye on anyone working behind them. They often bawl as though hungry, but may not take time more than to nibble on feed placed before them. Udders may appear full as usual, but milk yield is decreased through failure to "let down."

Spotting the "quiet" heats. Some cows have a so-called "quiet heat," regardless of whether they're kept inside or turned out. While it's a problem, there is a way of determining when these cows are in heat. Cows usually go through an apparent "menstruation" a couple of days after they have been in heat. Accordingly, blood on the tail or in the gutter may indicate the end of the heat period and furnish a clue as to the date of the next heat period. Nonpregnant cows are normally in heat every 17 to 23 days, so watch for signs of next heat period.

Careful examination of the vulva at the expected time of heat will often show it to be slightly swollen and puffy, with traces of characteristic clear mucus. Usually there is a slight enlargement, reddening of the clitoris.—*J. B., Wisconsin.*

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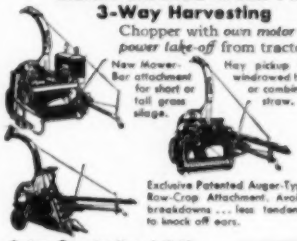

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Veterinary

Pigs were starving

An owner recently complained that some of his little pigs weren't doing as well as they should. The problem was somewhat puzzling at first. An approved plan of swine raising was being followed, and no diseases or parasites were causing trouble. All the little pigs and their dams were running together and getting the same care, but some litters were doing splendidly while others were dying off, causing uneven litters.

Investigation showed the ailing litters were nursing sows giving practically no milk. As such trouble is fairly common in large herds of swine, owners should make prompt checkups on sows with sickly litters.

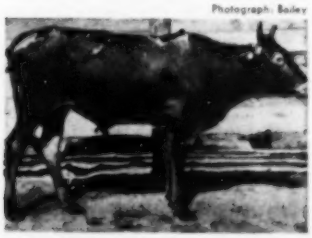
What's the trouble here?

This steer (pictured below) was noticed as having reddened areas of skin and showing considerable puffiness around the eyes and ears. Within a few days the skin dried out like old leather and considerable hair was lost from affected areas. Cracks finally appeared, with sloughing of large skin sections as shown in the picture. Following loss of the skin, new hair soon appeared in the bald areas. Healing occurred without a sign of scarring. Such symptoms can appear in connection with lightning stroke, burning by sprays or dips, light sensitization, gangrene, mange, and various other types of skin disorders. Can you name the cause of the trouble?

In this case it happened to be light sensitization caused by the eating of spoiled hay. Such trouble is usually confined to areas of white skin, so this dark-colored animal presented symptoms a little out of the ordinary. Pigs, horses, and sheep also are affected. Buckwheat, rape, alsike clover, and other legumes are usually involved. Something in these plants causes the skin to become extremely sensitive to sunlight.

Treatment consists of removing the cause through a change of pasture or roughage, and keeping the animals inside for a few days. Various kinds of ointments or mild protective oils may be applied daily to hasten healing and hairing out of affected skin areas.

Photograph: Bailey



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Fast-Same Day Service! 8 oversized prints in attractive Plastic-Bound Book only 35c. 12-35c. 16-60c. Satisfaction guaranteed. Free Exposure Guide with first order.
Picture, Box 899-M, Philadelphia 5, Pa.

Prompt Service—Finest Quality... Two prints deckle-edge: from eight exposure roll 35c. Reprints 3c each. 8 or clear sparkling prints (Trial Offer) send to Welch Photo Co., 2418-28 Penn North, Minneapolis, Minnesota.

Only 25c. Your roll developed and 8 finest quality enlarged prints. Pictures plastic bound in beautiful album. Trial offer, limited time. Daily service. Ball Studio, Dept. 8Z, Box 275, St. Louis, Missouri.

Two Sets Of "Deckledge" Prints with every eight exposure roll finished—40c. Very finest quality. "Deckledge" reprints 3c each. Jumbo reprints 5c each. Brown Photo Company, 1910-45 Emerson, Minneapolis, Minnesota.

Only 25c for 8 beautiful enlarged prints from your roll of negatives. (Trial Offer). 36-hr. quick service. Money back guarantee. Willard Studios, Box 3535N, Cleveland, Ohio.

8"x10" Hand Oil Colored Photo from your favorite snapshot $3.50; or Miniature beautifully gold framed $5.00. Kent Studio, 1140 NW 125th Street, Miami, Fla.

Tell Your Friends! 8 Giant Enlargements from roll or negatives 35c, 12-45c, 16-60c. Bonitone Studios, Box 1745T, Cleveland 5, Ohio.

Look 16 contact overside prints, or 8 Jumbos in album 35c. Coupon for 3 — 5x7 enlargements.
Owlphoto Co., Weatherford, Okla.

Eight exposure roll 30c, twelve exposure 40c, jumbo add 10c roll. Reprints 3c, jumbo 5c. La Crosse Film Service, La Crosse, Wisconsin.

12 Jumbos from roll, 35c, 8 Jumbos, 25c; with this ad.
E. Skrudland, Lake Geneva, Wisconsin.

OLD GOLD — JEWELRY

Highest Cash Paid For Old, Broken Jewelry, Gold Teeth, Watches, Silverware, Diamonds, Spectacles. Free Information. Satisfaction Guaranteed. Rose Smelting Company, 29-D East Madison, Chicago.

Classified advertisers know their sales always grow when they advertise in Successful Farming.

COONHOUNDS

Coonhounds, Combination Hounds, Foxhounds, Rabbit and Beagle Hounds. A Specialty. Puppies all breeds, price reasonable. Free literature and pictures. Trial. Raccoon Mountain Kennels, Box 268, Albertville, Ala., Dures Thomas, owner.

Hunting Hounds: Coon and Combination Hounds, Foxhounds and Rabbit hounds. Cheap. Trial. Literature Free.
Dixie Kennels, D4, Herrick, Illinois.

Hunters, we offer coon, combination hounds, fox, squirrel and rabbit hounds. Trial allowed. Information Free.
Hillsbie Kennels, Sesser, Illinois.

More editorial material is devoted to Dairy articles in Successful Farming than in any other major farm magazine. Write for classified advertising details.

FARM SEEDS

Grimm, Ladak, Ranger and Hardistan Ufalfa Seed. Prices now start at 42c per lb. Write for complete Seed List and Free Samples. Grimm Alfalfa Association, Fargo, N. D. 300 cooperating growers.

FARM EQUIPMENT

Rural Telephones. Modern, Hand-set wall and crank telephones, standard installation accessories, etc. Immediate delivery. Guaranteed to give clear transmission in town or on long rural lines. Free bulletin! Farm Telephone, Dept. 108, Rogers Park Station, Chicago 26, Illinois.

"Rub-R-Slat" Rubberized Canvases for combines. Rubber slats vulcanized to canvases, guaranteed weeds, stalks, straw cannot break or pull 'em loose. Give three times the wear ordinary canvases. Folder tells everything, including prices. The "Wetherbracks", Montmorenci, Indiana.

Protect yourself against power line failure with a Katolight AC generator which will provide AC current at 110-220 volts. Available either with engine drive or for tractor drive.
Katolight, Mankato, Minnesota.

Booms All-Purpose Wagon Unloader. Inexpensive, easily attached to your present wagon. Unloads five tons in seven or fourteen minutes. Free literature.
Boomz Silo Co., Harbor Beach, Mich.

New Better-Barns Book. Best ways to build, remodel and equip farm buildings. Please enclose dime for mailing cost.
Louden, Dept. SF-140, Fairfield, Iowa.

Wire Winder. Roll and unroll barbed wire with tractor power and speed. Low cost. Free literature. Midwest Wire, Dept. 18, South St. Paul, Minnesota.

Free Crib Plans. Cup and portable elevator catalog. Built right for future needs. Meyer Mfg. Company, Box 60, Morton, Illinois.

5 Brands Baler Twine: Binder Twine, Rope—Quality Guaranteed. Wanted Dealers, Distributors, Salesmen. Bob Stone—National Twine Distributors, Charlton, Iowa.

Government Surplus 200 ampere 28 volt DC generators. Use for electric arc welding. $33.00. Free information.
Lewis Short, Burrton, Kansas.

Portable Steam Cleaners for implements. Disinfecting, etc. Factory price. Oak Street Tank & Steel, P. O. Box 67, Ashland, Oregon.

Have More Butter with "Dixie-Maid" Electric Churn. 1-3-5-8 gallon sizes. For free folder, write Southern Electric Products, Anderson, South Carolina.

The average value of farm Implements and Machinery of Successful Farming farms is nearly double the U. S. farm average. Write for classified advertising details.

PATENTS

Inventors—If you believe you have an invention, you should find out how to protect it. Send for copy of our Patent Booklet "How to Protect Your Invention" and "Invention Record" form. No obligation. McMorrow, Berman & Davidson, Registered Patent Attorneys, 115-B Victor Building, Washington 1, D. C.

Inventors: When you are satisfied that you have invented something of value write me, without obligation, for information as to what steps you should take to secure a Patent. Write Patrick D. Beavers Registered Patent Atty., 930 Columbian Bldg., Washington 1, D. C.

Inventors: Without obligation, write for information explaining the steps you should take to secure a Patent on your invention. John N. Randolph, Registered Patent Attorney, 237 Columbian Bldg., Washington 1, D. C.

The Farmer's Trading Center is one of the nation's leading mail order sections. Use it to boost your business.

MISCELLANEOUS

Outdoor Toilets, Cesspools, Septic Tanks cleaned, deodorized with amazing new product. Just mix dry powder with water, pour into toilet. Safe, no poisons. Save digging, pumping costs. Postcard brings free details. Burson Laboratories, Dept. B-22, Chicago 22, Illinois.

Cesspools, Septic tanks, Outdoor toilets—Cleaned-Deodorized. Amazing Product Saves Digging. Details. DigNoMore Company, Dept. 24, 2611 Harriet, Minneapolis 8, Minn.

Television Towers direct from factory. Self supporting and guyed types. Write Youngstown Steel Towers Co., 1825 Wilson Ave., Youngstown 8, Ohio.

Successful Farming devotes more editorial pages to livestock and poultry material than any other major farm magazine. Write for classified advertising details.

STOCKMAN'S SUPPLIES

Horse Weights, 50c per pair postpaid. Made in 4 sizes—½ lb., 1 lb., 1½ lb. and 2 lb. Tattoo markers $4.75 postpaid, includes set of numbers, bottle of ink, and full directions. We also carry complete line of ear tags, neck chains, veterinary instruments, supplies, serums, remedies; in fact, everything for the stockman. Write for free catalog.
Breeders Supply Co., Council Bluffs, Iowa.

Did you know Successful Farming has a greater percentage of subscribers living on farms than any other major farm publication? To reach farm families, advertise on these pages.

Farmer's Trading Center

LIVESTOCK

Registered and Non-Registered Wisconsin Holstein Calves—for higher production herds. Exceptional offering of choice Wisconsin Holstein Calves. Available in large quantities. Also some Guernsey and Brown Swiss. Vaccinated against shipping fever. Health sheet furnished. Well started—no milk required. Visitors welcome. Write or Telephone. J. M. McFarland & Sons, Watertown, Wisconsin.

Guernsey and Holstein Heifer Calves. Good, strong, carefully selected Guernsey or Holstein heifer calves, purebred, not subject to registry, $60 F.O.B., express car. Older calves higher, according to age. 10 to 35 delivered by truck on approval. Also a few Brown Swiss calves.
H. R. Lobdell, Mukwonago, Wis.

Blue-Ribbon Holstein heifers from Wisconsin's biggest and oldest dealer. Guaranteed and selected from proven Wisconsin herds—No Stock Yard Culls! Vaccinated for shipping fever. T. B. and Bangs tested. Health sheets and buyer reference furnished. Special Offer! Walter Lehmann, Dept. 7, Box 53, Watertown, Wisconsin.

Free 114 page Veterinary Guide. Describes 95 farm animal diseases, newest sulfas, penicillin, etc. If no Peters dealer near you, write Peters Serum Laboratories, 812 McGee, Kansas City, Mo. (Peters family, world's first hog serum manufacturers.)

Use Hampshire sires for big early maturing market-topping lambs. Free breeders list and information. American Hampshire Sheep Association, 72-8 Woodland, Detroit 2, Michigan.

Wisconsin Holstein Calves, registered or purebreds. Selected for type and production. Also Guernsey and Brown Swiss. George Piper Farm, Watertown, Wisconsin.

Wisconsin Holstein, Guernsey and Brown Swiss Heifer Calves from High Production Herds. Free literature and prices. Dairyland Cattle Co., Delafield, Wisconsin.

Your mail sales grow each time you Go Classified in Successful Farming.

Reduce your cattle trading worries: Get confidential feeder cattle market information—direct from the western range—through Northern Plains Roundup bulletins. Covers movement of over 4 million cattle in Montana, Wyoming, South Dakota, Nebraska, Colorado. Quotes cattle contracts for future and immediate delivery, prices at weekly range auctions; gives price and marketing trends, general range conditions. Authentic, valuable market news not available elsewhere. Published bi-weekly in center of Northern range states. Subscription $5 per year, includes Free magazine supplement featuring Stockman Exchange section and range market directory. Special Trial Subscription—three months' issues for only $1. To subscribe or get free sample copy, address Northern Plains Roundup, P. O. Box 774G, Alliance, Nebraska.

Powdered Phenothiazine: Plain (100.00%), Drench (99.00%); 150 pounds, $92.95. Fifty, $34.95. Twenty-five, $20.45. Ten, $9.49. Five, $4.95. Prepaid. Guaranteed. Attractive prices larger quantities and Phenothiazine-Lead Arsenate Drench. Southside Chemical Company, Petersburg 3, Virginia.

"How to Break and Train Horses". A book every farmer and horseman should have. It is free, no obligation. Simply address Beery School of Horsemanship, Dept. 208, Pleasant Hill, Ohio.

Berkshire hogs increase New Profit. Leading meat-type breed, best foragers, prolific. Write for magazine, literature and list of nearby breeders. American Berkshire Association, 6018 West Monroe, Springfield, Illinois.

Hereford Hogs will convert grain to pork most economical of any breed. Attractive illustrated circular.
Yakelund Hereford Farm, Peoria, Ill.

Oakland Guernsey Farm, Mukwonago, Wisconsin offers 20 choice high grade Guernsey heifers bred and open. Best type, and breeding. Tested.

Registered Berkshires and Angus Cattle. Improved type. Farmer's prices. Write for details. Owen Stock Farms, Route 5, Spencer, Indiana.

SALESMEN WANTED

$50 For Spare Time selling only 100 exquisite $1 Christmas Card Assortments. Exciting values sell on sight. Profits to 100% on complete line. Free Samples. Personalized Cards, Stationery. Assortments on approval. Stuart Greetings, 325 W. Randolph, Dept. S64, Chicago 6.

Look Here! Wanted—Men to start in business on credit. Sell some 200 farm-home Products. Thousands our dealers now make quick sales, big profits. For particulars write Rawleigh's, Dept. H-192-SHW, Freeport, Ill.

The average value of farm implements and Machinery of Successful Farming farms is nearly double the U. S. farm average. Write for classified advertising details.

FEATHERS WANTED

Guaranteed top prices and immediate payment for feather shipments. Free tags. Ship to this old reliable firm. Used feathers—send sample for best price. No handling or commission charge. Progress Feather Co., 657 W. Lake St., Chicago, Ill.

Top Price for new goose & duck feathers. Ship parcel post. For old feathers mail sample in ordinary envelope to Northwestern Feather Co., 212 Scribner, Grand Rapids 4, Mich.

No. 1 livestock magazine in its field, Successful Farming leads all major farm magazines in editorial pages devoted to livestock.

DAIRY GOATS

Profit and Health from dairy goats. Monthly magazine tells how. 12-month subscription $1. Dairy Goat Journal, Columbia, C25, Mo.

FARMS — REAL ESTATE

It's Complete....10 Jersey milk cows, 5 calves, 3 sows, boar, team, poultry flock, machinery, electric refrigerator, other household furnishings, crops included with improved 160 Ozark acres at only $6,350. 2½ miles village, 25 cultivated, rest timber and pasture. 4 springs, creek, 37-tree orchard, electric-lighted 3-room home, spring, good barn, good poultry buildings; hurry on this, only $6,350 complete, less than half down. Immediate possession. New Free Fall catalog many states just off press. United Farm Agency, 2825-SF Main St., Kansas City 8, Mo.

Strout's Two Catalogs. Farms, Homes, Businesses, 3646 bargains, 31 states. East and Mid-West. Green cover. West Coast edition Yellow. Either Free. World's Largest Strout Realty, 20-R West Ninth St., Kansas City 6, Mo.

Canadian Farm Lands—Improved and Unimproved Lands. Good settlement opportunities on productive soil, reasonably priced. For free information write: Canadian National Railways, Dept. N, Union Station, Winnipeg, Canada.

Farm-Ranch Opportunities. Favorable conditions. Washington, Minnesota, Montana, Idaho, Oregon, North Dakota. Literature, farm descriptions. Specify which state. J. W. Haw, 11 Northern Pacific Ry., St. Paul 1, Minn.

Southeast Arkansas Farms & Ranches For Sale.
Sessions Realty, Lake Village, Arkansas.

Increase your business with a classified advertisement in Successful Farming.

EDUCATION

High School-No Classes. Study at home. Spare Time. Diploma awarded. Write for Free Catalog H.A.G-17. Wayne School, 2527 N. Sheffield, Chicago 14, Ill.

AGENTS WANTED

Make Extra Money—for yourself, club or church. Up to 100% profit selling big value Christmas, All-occasion greeting card assortments to friends, others. 7 leading 21 card $1.00 boxes. Religious and Novel cards. Gift Wrappings, Giftbooks, Stationery, Napkins, Animated Books, Sewing Kits, unusual Gifts. Over 150 items. Bonus plan. Experience unnecessary. Write for Samples on approval. Special Offers. Hedeskamp, 361 Broadway, Dept. SU-17, New York.

At Last! Something New and Sensational in Christmas Cards. Make Extra Money Fast! Show Sallie, Velours, Metallics. Gets Easy Orders. Pays up to 100%. Cash Profit. 50 Free Samples. With Name 50 for $1.25. Big Line. Amazing new Glo-In-The-Dark Ornaments, Personalized Matches, Stationery. Several $1.00 Boxes on Approval. Pure Greetings, 2801 Locust, Dept. 256-K, St. Louis, Mo.

Start a greeting card and gift shop at home. Show friends newest Christmas, All Occasion cards, gift wrappings, novelties. Big profits. Experience unnecessary. Request Feature samples on approval and free samples Name Imprinted Christmas Cards, 100 for $1.00. Stationery, Napkins. New England Art Publishers, North Abington 2014-C, Mass.

Christmas Card Money-Makers! Everybody wants new 25 for $1.50 Gold-Name Cards. Cash in big. 161 fast-sellers. Profits to 100%, on $1 boxes. Gift Business. 4 assortments on approval. Imprints. Free Creative Cards. 2305 Cermak, Dept. 86-C, Chicago.

Make Money—Show friends sensational value Christmas Cards with Name—60 for $1.00. Also new Dap-Glo, other fast selling assortments. Free Samples Personal Cards, note on approval. Write Arrow Greetings, Dept. S-75, 515-4th Ave. So., Minneapolis, Minn.

Amazing Money Making Offer $50 or more selling 100 boxes America's Leading Christmas Cards. Samples On Approval. Complete Line. Free Samples Personal Christmas Cards and Stationery. Sensational Bonus. Write. Lorain Art Studios, Dept. 129, Vermilion, Ohio.

Brand New! Amazingly different and smart Christmas Cards bring you big Money! Take Easy Orders Fast! Pay up to 100% Cash Profit. With Name 50 for $1.25. Big line. Sensational Glo-In-The-Dark Ornaments, Personalized Stationery, Matches. Several $1.00 Boxes on Approval. Imprints Free. North Star, 31 Glenwood, Dept. 9-C, Minneapolis, Minn.

New Bathroom Deodorizer. Hangs on wall. Banishes odors bathroom, kitchen. Lightning seller. Samples for Agents.
Kristee 151, Akron, Ohio.

Cash—For Yourself Or Your Organization—Quick, Easy, Pleasant. No Experience Necessary. Spare time, full time. It's the sure way to make money. Everybody buys exclusive, exquisite new 1952 Elndra Christmas line—De Luxe Christmas Assortments, 5 Name Imprinted Christmas Card Line, all-occasion Cards, gift wrappings, gift items, books, personalized stationery, napkins, matches from $1.00 up. High quality. Low cost. Save friends, neighbors, co-workers time and money. Start making extra cash at once—with no investment. We supply everything—Free samples, money-making kit, Bonus, Money-Saving Offers, assortments On Approval. 42 page catalog. Promotion Service ensures recommendation to others. Write today. Elmira Greeting Card Company, Elmira C-52, New York.

Call on Friends with sensational Christmas Cards in handy assortments. Price, $1.00. Profit up to 50c. Also popular-priced Personal Christmas Cards, Everyday Assortments, etc. Samples on approval. Wallace Brown, Dept. P-4, New York 10, N. Y.

Absolutely Free! Big package actual sample fabrics and style presentation of dresses, lingerie, hosiery, etc. Take orders. Commissions big. Send no money. Melville Co., Dept. 7443, Cincinnati 23, Ohio.

Shine Shoes Without "Polish". New invention lightning seller. Shoes gleam like mirror. Samples for Agents.
Kristee 150, Akron, Ohio.

Just Out! New Thrilling Sensation in Christmas Cards. Make Big Money! Show Lustre Foils, Satins, Brilliants. Amazing Values bring Easy orders! Magic Glo-In-The-Dark Ornaments, Personalized Stationery, Matches. 30 Free Samples. With Name 50 for $1.25. Several $1.00 Boxes on Approval. Joy Greetings, 507 N. Cardinal, Dept. 43-B, St. Louis, Mo.

Cash in on your spare time! Sell beautiful new Regal Christmas Greeting Cards and Gift Assortments. No experience necessary. Costs nothing to get started. Show wonderful samples to friends, relatives, neighbors. Merely take orders and pocket up to 100% profit. Write today for samples on approval. Regal Greetings, Dept. 73, Ferndale, Michigan.

Do You Need Money? $35.00 is yours for selling only 50 boxes of our 300 Christmas Card line. This can be done in a single day. Free samples. Other leading boxes on approval. Many surprise items. Experience unnecessary. Free samples Personalized Christmas Cards, Stationery, Napkins. Write today. It costs you nothing to try. Cheerful Card Co., 10 White Plains, New York.

DOGS — PETS

Genuine English Shepherd pups—(Disposer's assisted). Guaranteed heelers—no fault-drivers. Year's Trial. Training Instructions. Males, Females, Spayed Females. Highview Farms, Cedar Falls, Iowa.

Sportsmen: 200 Pointers, Setters, Straight Cooners, Combination Hunters, Rabbit and Fox Hounds. Reasonable List Free.
Ramsey Creek Kennels, Ramsey, Illinois.

"PR" German Shepherd Police pups. Protect your property with a watch dog. Send 25c for picture.
H. Schumacher, Ottertail, Minn.

Want to buy good collie or shepherd puppies. Dept G. Box 777, Des Moines, Iowa.

Genuine English Shepherd and Collie pups—guaranteed heelers—no fault-driving year's trial—training instructions—(50,000 satisfied customers) males—females—spayed females—$15.00. (Disposer vaccinated).
Emil Runft, Reinbeck, Iowa.

Crookside Eng. Shepherd pups. $12. Guaranteed heelers, watchdogs, happy guarding the baby. Training instructions. Few older partly trained $25.
Crookside Kennels, Brandsley, Minn.

Setters and Pointers, Fox, Coon, and Rabbit Hounds, shipped for trial. Catalog 10 cents. Stanley Blake, Mgr. Blue Grass Farm Kennels, Berry, Ky.

EMPLOYMENT

Sell finest nylon hosiery Guaranteed against everything, snags, runs, holes. Demonstration kit Free to you with actual sample stocking. American Mills, Dept. 397, Indianapolis.

Make Money Introducing World's cutest children's dresses. Big selection adorable styles. Low prices. Complete display free. Rush name.
Harford, Dept. H-1341, Cincinnati 25, O.

SCHOOLS

Be An Auctioneer! Auctioneering taught in all its branches. Term soon. Write for catalog. American Institute of Auctioneering, 809 6th Ave., Des Moines, Iowa.

Be an auctioneer. Learn more, earn more. Term soon. Write for information. Missouri Auction School, 3241 Paseo, Kansas City, Mo.

To sell more by mail . . . Go Classified, in the Farmer's Trading Center.

". . . 187, 188, 189, 190, 191 . . . !"

Your state extension service and *Successful Farming* join to bring you first-hand the newest, the best, in agricultural research.

Field Days are Big Days—hundreds of farmers from many states gather to see, hear, and talk about new and important agricultural methods. Step-by-step demonstrations—on the farm where the new method is developed—show its use.

Field Day No. 1—J. Herbert Doak farm, Wilmington, Ohio, February 14, monthly hog-litter system

Field Day No. 2—D. Howard Doane farm, McCredie, Missouri, May 19, pasture beef feeding

Field Day No. 3—Louis Brownfield's Malabar Farm in Ohio, August 9, to show how to restore soil organic matter quickly

Field Day No. 4—Research Acres, Bloomington, Illinois, planned for fall, wide-row corn planting

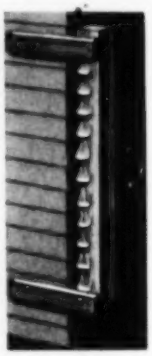
1,100 farmers traveled over icy roads from nine states, some journeying 500 miles, for the first Field Day. Watch *Successful Farming* or your extension service bulletins for announcement of a Field Day in your area.

Successful Farming

All around the farm *A page written by our readers*

The paint film formed on the surface of paint left even in tightly covered cans can be prevented by a heavy paper or light cardboard disc laid on the surface of the paint. This disc should be cut to fit the sides of the can as closely as possible. Lay it carefully on the paint surface and then replace the can cover securely. To remove the disc, I pass a knife around the edge against the can and lift out the disc.—*H. C. L., Nebraska.*

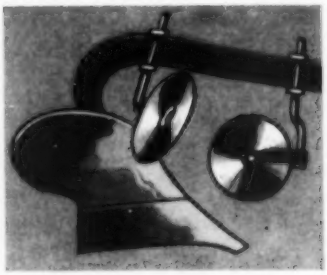
We solved the problem of bending the corrugated steel roofing on our new barn eaves very nicely. We made one corner of a cedar timber round. The timber was a 4' long 6x6. We carved notches to fit the corrugations and fastened the timber about ¼" from the barn wall with cleats as shown in drawing. In this form, we were able to bend our steel on the curve. It does a fast and satisfactory job.—*H. F., Michigan.*



Cutting coil springs can be a dangerous operation if pieces are allowed to fly. To prevent this, run a thin wire through the spring and tie the ends to form a loop. The force of the severed spring will be confined within the length of the loop.—*H. K., California.*

We use broken or worn-out V-belts for replacing the trip rope on the plow. We drill a hole near the end of the belt to take a wire for fastening. The belt lasts many seasons, is easy on the hands, and will not kink in the wind like a rope.—*J. L. A., Iowa.*

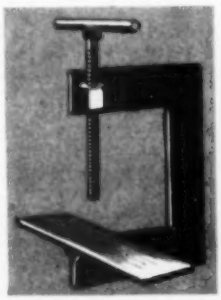
An old cultivator shovel fastened to a handle about 2' long, much like a hoe, makes a very good hog-trough cleaner.—*L. H., Iowa.*

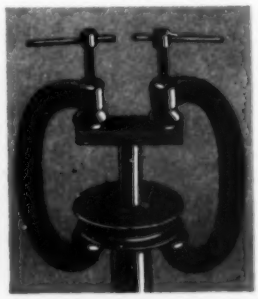


The manner in which grass, straw, and other trash can catch on a plow jointer is familiar to all. We eliminated this on our plows by removing the jointer altogether, leaving only the colter in place. Then we mounted a cultivator disc, as shown, right above the bend in the plow beam. With a little experimenting and adjustment of shank, the disc can be set to do the job on the furrow slice the same as a jointer, but with much less trouble from trash.—*W. M., Pennsylvania.*

To convert a hammer into a rubber mallet, I slip a rubber crutch tip over the striking head. For repair tasks where parts must be eased into place carefully, the rubber head won't mar wood or metal.—*L. W. F., Iowa.*

For use in welding, I have made my own C-clamps for holding the work together. I burn out a square "C" as shown, from ¼" plate, any size required. To the top arm, I weld a nut as illustrated. Across the bottom arm, I weld a ¼" plate as an anvil. I thread a bolt through the nut, and to make the bolt easy to turn, I weld a short piece of rod to the bolthead. A wrench may still be used on the bolthead for very tight adjustment.—*J. K., Ohio.*





We often forget to turn off the lights upstairs in the barn and up in the silo. Because of their out-of-the-way location, it would often be hours later before we discovered that the lights had been left on. But now in the basement stable we have an extra electric light with a low-wattage bulb such as 7.5 or 15 watts connected with each of the three circuits. This bulb reminds us if someone has left a light on. These pilot lights help prevent needless waste of electricity and they very definitely have cut down our electric bill.—*F. T., New York.*

I had a local tinsmith make a metal cover for the grain hopper of my combine. In case of a sudden storm, the hopper can be covered in less than a minute, and I have no wet grain in the hopper. The cover should be made to fit the top of the hopper exactly, with a ¾" flange on all sides, to hold it securely in place.—*T. C. P., Michigan.*

Before storing lengths of pipe, plug the open ends to keep out dirt, insects, and rodents. Fine steel wool dipped in oil and then pressed tightly into the pipe will keep out foreign matter.—*N. P., Nebraska.*

To pull small pulleys from shafts, I use two C-clamps, and a short length of pipe a little smaller than the shaft. A short length of flat strap iron is also used, as shown. As I tighten the clamps, the pulley comes off.—*A. R., Minnesota.*

At Harvest—You'll Be Glad You Planted DeKalb

Why did you change to Camels, ROBERT YOUNG?

"My voice and throat were important factors —I found that Camels suit my throat...

"As for taste, Camels give me more smoking pleasure than any other brand!"

ROBERT YOUNG
SCREEN AND RADIO STAR

SMOKE CAMELS FOR 30 DAYS...SEE FOR YOURSELF HOW WELL

Camels agree with your throat

THE PROOF of a cigarette is in the smoking. Do as Robert Young did. Try Camels as your *steady* smoke. Smoke only Camels for the next 30 days and see how *rich* and *flavorful* Camels are. See how *mild* Camels are . . . how well they *agree with your throat* — pack after pack, week after week!

Among the millions of Camel smokers are many, many doctors. When tens of thousands of doctors, in every branch of medicine, were asked what cigarette they smoked, the brand named most was Camel. Yes, according to this and other surveys . . .

MORE DOCTORS SMOKE CAMELS THAN ANY OTHER CIGARETTE!

Make your own sensible 30-day Camel mildness test in your T-Zone
—T for Throat, T for Taste

R. J. Reynolds Tobacco Co., Winston-Salem, N.C.